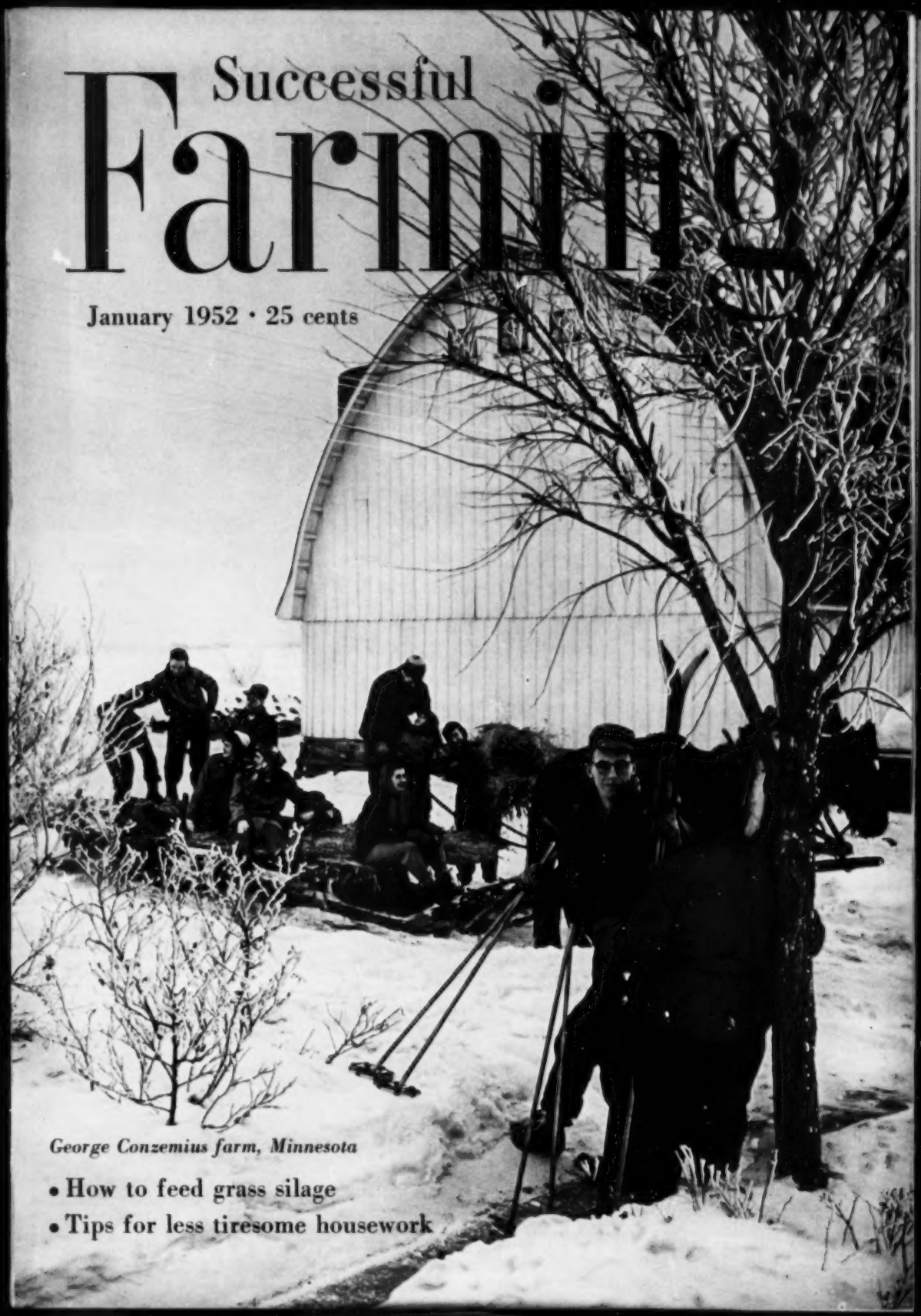
Successful Farming

January 1952 · 25 cents



George Conzemius farm, Minnesota

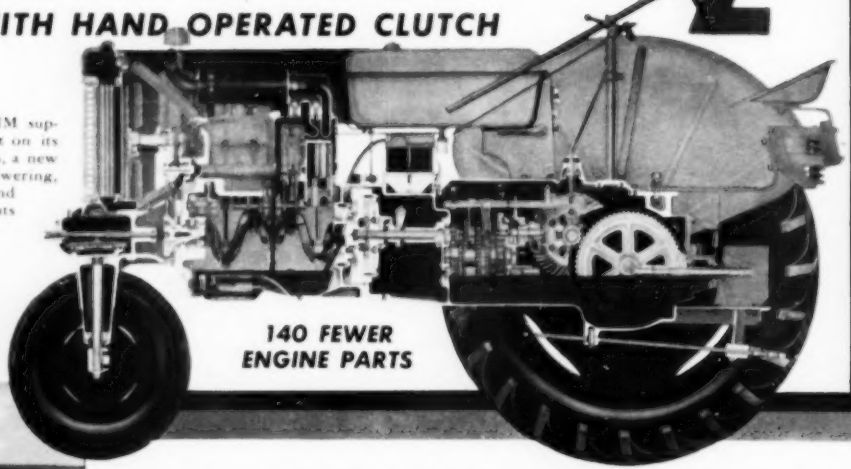
- How to feed grass silage
- Tips for less tiresome housework

WHEN THEY KNOW THE INSIDE FACTS

PROFIT-WISE FARMERS CHOOSE THE MM VISIONLINED Z

WITH HAND OPERATED CLUTCH

UNI-MATIC POWER . . . MM supplies, as optional equipment on its famous Visionlined tractors, a new hydraulic unit for raising, lowering, and controlling mounted and pull-behind farm implements while on the go.



140 FEWER ENGINE PARTS

THE PREFERRED 2-3 PLOW TRACTOR . . . with plenty of reserve power!

It's better to have *plenty of power*, than not quite enough when you need it. *And the* MM Z *has a reserve of stepped-up power for drawbar, belt, and power take-off work!* Greater piston displacement of 206 cubic inches helps boost the power of the Z to deliver approximately 36 horsepower at the belt and about 31 horsepower at the drawbar. *You have plenty of power when you need it . . . MM economical power of proved dependability!*

The heavy-duty transmission of the Z runs in oil bath . . . has 5 forward speeds from 2.4 m.p.h. to 13.1 m.p.h. and a reverse of 2.2 m.p.h. Large 11-38 tires give greater traction . . . *gear it to the ground* for the roughest, toughest farm task.

TAKE A LOOK *INSIDE* . . .

. . . at the roller bearing mounted steering gear that gives new car handling ease . . . at the controlled cooling system which assures *uniform* temperature for *uniform* flow of MM economical power . . . at the drop-forged 3 bearing crankshaft . . . at the heavy-duty over-center twin disc clutch . . . note the precision cast iron pistons with 4 rings . . . study the full pressure lubrication system . . . marvel at the simplicity of the *exclusive* MM valve mechanism, one of the many *quality* engineered features which enabled MM engineers to produce a *powerful, dependable, economical engine* with 140 fewer moving parts!

Your 'Z owner-neighbors' will mention other *points of preference*:—the liberal use of oil seals that keep out dirt . . . the safe, smooth, comfortable operation assured by adjustable seat and steering wheel, non-slip platform, and conveniently located controls. They'll mention the high turbulence combustion chambers which cut fuel consumption . . . the easy accessibility for the minimum servicing required. Cylinder blocks cast in pairs with side openings is another outstanding feature which is a *point of preference* for the MM Visionlined Z.

THERE'S A Z TRACTOR DESIGNED FOR *YOUR* TYPE OF FARMING

The Visionlined ZAU has 2 front wheels together which by reversing have a tread of 12⅞ inches. Rear wheel tread is adjustable from 54 to 88 inches. For narrow row crop the Visionlined ZAN with a single 7.50 x 10 front wheel and 54 to 88 inch rear wheel tread is ideal. The standard tread Visionlined ZAS has a 47 inch front wheel tread with 54 inch or 59 inch rear wheel tread. The ZAE has a rear tread of 54 to 88 inches and a front axle permitting adjustment of front wheels from 56 to 84 inches at 4 inch intervals.

From MM owners and from your friendly MM dealer you'll want to get complete facts . . . learn about all the *points of preference* on the Visionlined Z . . . the satisfaction of owning the tractor that will help you produce more at lower cost! The Visionlined Z is *geared to the ground* . . . preferred for profitable production. It's the "buy" that gets you more for your money.

Quality Control IN MM FACTORIES ASSURES DEPENDABLE PERFORMANCE IN THE FIELD

MINNEAPOLIS MOLINE MODERN MACHINERY

MINNEAPOLIS-MOLINE

MINNEAPOLIS 1, MINNESOTA

If you are confused by the babble of claims about tractor tires today, let your next purchase be guided by this unchallengeable fact:

Nationwide surveys show that America's farmers prefer Goodyear's Super-Sure-Grips far ahead of any other make—because experience proves they give "the greatest pull on earth because they work where others won't!"

So why take less than the best—when Goodyears cost no more? And give longer wear!

GOODYEAR

Super-Sure-Grip Tractor Tires

Super-Sure-Grip—T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

3 REASONS WHY GOODYEAR'S YOUR BUY!

STRAIGHT LUGS! All Goodyear lugs are ruler-straight and come closer together at the shoulders—to give the time-proved, wedge-like, Sure-Grip bite that holds the soil in place—doesn't plow it out like curved "plowshare" lugs.

O-P-E-N C-E-N-T-E-R pioneered by Goodyear. Most widely imitated of all tractor tread designs because farm experience proves it the most efficient—*when combined with straight lugs!*

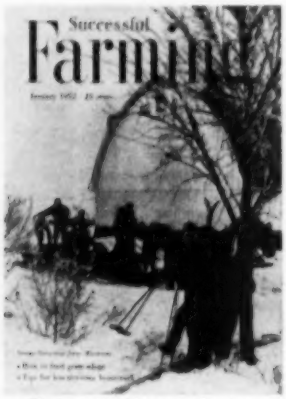
NO WEAR SPOTS! Goodyear *straight* lugs work against the soil evenly, pull evenly, wear more evenly—don't force the earth *into and over* a curved pocket that wears out lugs in the middle.

FIRST in Traction! • FIRST in Long Wear! FIRST in Popularity!

We think you'll like
"THE GREATEST STORY EVER TOLD"
Every Sunday—ABC Network

A-W.

This month



Photograph: Photography, Inc.

About the cover: Last January, all of Minnesota was a paradise for snowbirds and the old-fashioned horse-drawn sleigh. It was cold, too, as one young lady in the cover picture will tell you—her nose was frozen before the afternoon outing ended.

On the George Conzemius farm, near Cannon Falls, they didn't care for snow during the week when they had to plod through it to care for livestock. But on Sundays, they loved it!

Our cover was snapped on a Sunday afternoon when Photographer Warren Reynolds drove out from Minneapolis to get the photographs for "What's your family like?," on page 33. His assignment didn't include a cover. But when he saw the glistening frosted trees, still, as though saying a quiet benediction over the farm, he couldn't resist. We're glad he didn't, for he has recorded Winter's pleasant side. He recorded, too, young men and women down on the farm enjoying winter as many city folk wish they could.

A gesture we like: In Des Moines, Iowa, the Women's Department of the Junior Chamber of Commerce holds a Harvest Festival late each fall. It's the occasion when they send special invitations to their farm friends. Highlight of the affair is the drawing for prizes donated by Des Moines business firms. This year the farm women threw in a surprise—they, the guests, brought gifts from the farm and asked that only city women be eligible to draw for them. You never saw happier recipients, for the gifts were steaks from the farm lockers, fresh eggs, home-canned jellies, jams, and vegetables. Nice way of getting together, we think.

New word? At a recent National Home Laundry Conference a new word may have been born. The word: *synlets*. It's proposed as the new name for synthetic detergents, which are chemically different from soaps (yet look like them) and often called simply "detergents." But a "detergent" is anything that cleans, even water. So we hope the name *synlets* will be adopted to distinguish the synthetic flakes and powders from the soaps.

Successful
Farming
The Dairy Farmer

THE MAGAZINE OF FARM BUSINESS AND FARM HOMES

January, 1952 Vol. 50, No. 1

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What part of the farm would your family have left?

THERE CAN be a tremendous difference between what a man leaves his family and what they actually receive. Farm estates that have been built up over the years often shrink considerably when their owners die.

For estate and inheritance taxes and probate and administration costs can take a big slice out of holdings when an estate is settled. These taxes and costs often run as high as twenty or thirty per cent of the net value of the estate. And they must be paid *in cash* soon after the owner's death.

If this cash is not readily available, it may mean selling part of the farm. And when property has to be sold under adverse conditions, it is usually at a sacrifice. Thus the heirs not only lose valuable income-producing land, but lose on the sale besides.

The way to make sure your family will inherit all the property you intend to leave them is to make sure there will be enough cash on hand to meet taxes and other costs.

And the way to make sure the cash will be there when needed is to take out life insurance to cover all the costs of settling your estate.

That way, you'll know the money will be available. You'll know your heirs will receive the property intact. You'll know your estate can be settled easily, quickly and without causing your family months or even years of trouble and worry.

If you have built up a farm whose land, buildings and equipment represent a sizable investment of money—and you hope to leave it to your family "as is"—then by all means find out how life insurance can serve to protect your estate.

Your New York Life agent will be glad to give you all the information you need with no obligation on your part whatever. Get in touch with him today—or, if you don't know the New York Life agent serving your county, write to the Home Office at the address below.

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The Farm Outlook: Are farmers

Editors' note:

The charts of history are not kind to agriculture.

They show that only during and immediately after major wars have farm prices shown firmness in relation to the rest of our nation's economy.

Must we go through that same cycle again? Many economists have thought so. That feeling has caused them to advise farmers—each year since 1939—to be cautious, not risk too much.

But those who *have* risked, have won. Thus the question: What now?

You will have to make up your own mind. But there is a growing feeling that time devoted to waiting is time wasted. We have asked Mr. Wilcox—a thoughtful economist and long-time observer of the farm scene—to put this feeling into words. As this is a basic, long-range decision you must make, we have taken this month's regular Farm Outlook page and page 7 to present this special message.

This year, farmers are setting new records in production, and have returned well toward their 1947 and 1948 levels of income. Who—in 1944 or 1945—would have *dared* to predict that *six years after the end of the war* farmers' incomes would be *one-third higher* than in wartime? Who would have predicted that farmland prices would rise for six years, reaching a new peak in 1951, 75 percent higher than in 1944-45? Who would have had the imagination to predict that in six years beef steers in Chicago would be selling for more than twice their wartime levels?

In a report prepared in 1947, the Bureau of Agricultural Economics said, "Even allowing for some slackening in business . . . the outlook for American farm products is relatively good for the next few years." In considering the longer-run situation, they said the prospect for American agriculture over the next 25 years was good. With employment relatively high, they believed farm prices would average at about the parity level.

A number of leading agricultural economists and farm leaders at that time disagreed with this relatively optimistic outlook for agriculture. They had in mind the charts showing the declines in all prices which have followed other recent wars, and the greater relative decline in farm prices.

Farm leaders who had not studied the long-time price charts took their cue from the experience of the 1930's. How could we find a profitable market, in peacetime, for a farm output 25 percent greater than the surplus-creating crops of 1937-40?

Thousands, if not millions, of farmers would like to live over again the past six years in order to correct mistaken business decisions. That, of course, is impossible. But what can we learn from our recent mistakes?

First, and probably most important, we must recognize that peace has not yet returned to the world. We have not even definitely located peace in our long-distance field glasses. Our expectations in the past six years have not been fulfilled primarily because of the absence of world peace.

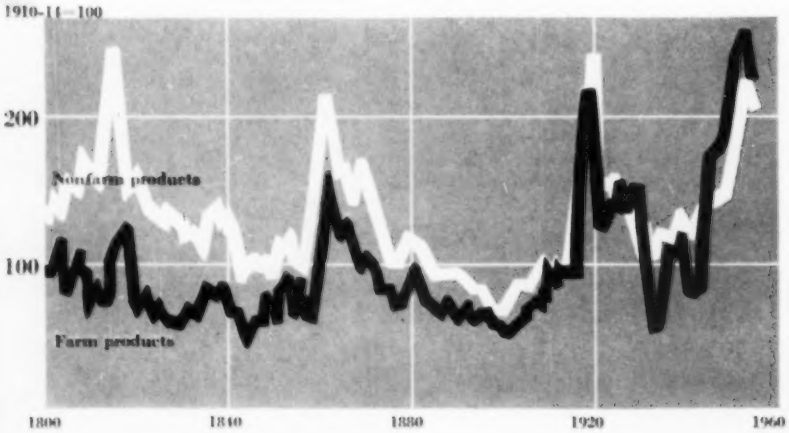
Most economic forecasts have been based on the assumption that peace was here and would be continued.

Such forecasts have assumed away the most important social and economic problem of our generation.

There is no other alternative. Farm families must begin making their plans and their decisions with the expectation that military and national security considerations will dominate our domestic and foreign policy for the indefinite future.

There are at least four other developments of great importance which make farmers' economic prospects quite different from, say, 25 years ago. They are: (1) the great increase in the

Wholesale prices in the United States



What next? Shall we wait for lower prices before buying a farm or enlarging our farming operations? If we wait, will the price level fall as it has before? Or will things be so different this time that we may as well plan on that price line's hugging top of chart indefinitely?

Land too high? Study the charts at the right. They show what has happened to the price of land in relationship to its earning capacity. First chart also shows how increasing farm-production costs are driving the gross and net farm-income lines further apart. Most authorities think this trend will continue

riding for a fall?

By Walter W. Wilcox

membership of labor unions, resulting in an even greater increase in their political influence and economic power; (2) a great national fear of the return of unemployment as in the 1930's; (3) a general acceptance of government farm price-support programs, and (4) a rapidly increasing population in the United States.

Let's take these new forces one at a time and examine the way they affect the economic prospects for farmers.

Impact of absence of peace

The first consequence of an insecure peace is heavy military expenditures. In the aftermath of World War II, these outlays have added to inflation, created material shortages, increased military-service requirements for our young men, and contributed to labor shortages in the factory and on the farm.

While we expect to achieve important parts of our new military-strength goals by 1953, we have little assurance that present goals will not be inadequate at that time.

It is an unpleasant prospect. But not a hopeless one. Farmers will be affected much like other groups. Taxes will be heavy, some supplies may be temporarily short, and wage rates for hired labor will be high. There will be ups and downs in the economic situation, highly correlated with the actions of Soviet Russia and her satellites. Few people expect the downs to offset the upward thrusts, however, giving us an over-all inflationary pressure as long as the peace is insecure.

Influence of labor unions

Collective bargaining now dominates the wage market in our major industries. When labor shortages are widespread, unorganized workers may obtain wage increases equal to or greater than organized workers'. The effect of unionization on the wage level is greatest when prices and employment are holding steady, or dropping.

Thus, we may expect that in the periods when military requirements are *not* pressing as hard on our economy as at present, organized workers will continue to press for higher wages and better working conditions—or at least resist wage cuts. And they will be more successful in their efforts than unorganized labor has been in the past. Widespread organization of labor will be an important force preventing reductions in wage rates in periods when they otherwise might fall.

National fear of unemployment

The usual consequence of maintaining high wage rates when demand declines, is unemployment. But the experience of the Depression of the 1930's is so vivid in every public leader's mind that the prevention of another depression is second only in importance to preventing a third world war.

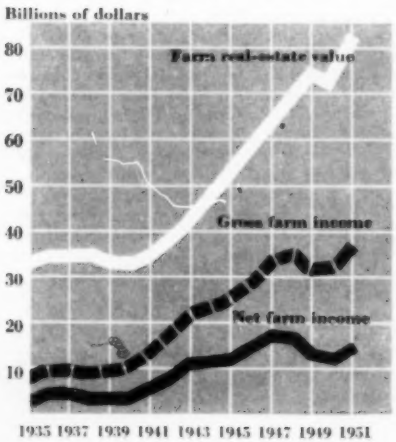
If demand falls off and wage levels are maintained, the leaders of both political parties will sponsor special corrective measures rather than permit serious unemployment to develop. We now have the Full Employment Act of 1946, and we have had valuable experience in combating depressions.

Few would say that we now know how to *prevent* depressions, but we do know more about these complex economic problems than we did 30 years ago, and are politically willing to use what knowledge we have. Perhaps even more important, the concern over unemployment is much greater than the concern over inflation. We appear likely to follow inflationary policies, fearing that if we do not, unemployment will result.

Farm price supports

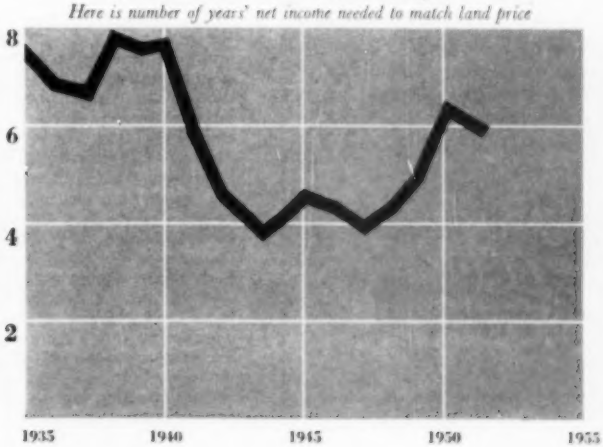
Price-support programs for our important storable crops are now an accepted part of our economic system. These cover over 80 percent of the value of crops marketed. Farm prices will fluctuate sharply in the years ahead, as they have in the past. But the price fluctuations of the storable crops *will be moderated* by government loans or supports when prices are falling. And when prices are rising, the fluctuations will be restrained by carry-over stocks resulting from previous government loans. [*Turn to page 72*

Farm income



When was land the best buy?

Here is number of years' net income needed to match land price



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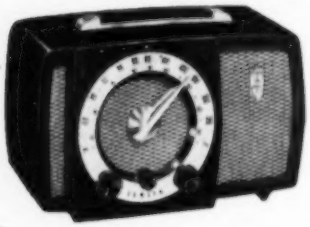

Zenith Quality Radios

with Super-Sensitive FM

You can hardly believe it unless you hear it yourself! Crystal-clear, static-free, interference-free reception rain or shine, day or night, summer or winter. For the first time, farm families can enjoy news, sports, music, market and weather reports, where AM and many FM sets won't work at all! And you don't even need an aerial in primary signal areas. You also enjoy—in the same set—famous Zenith Long-Distance AM. Shown above, the Zenith "Super-Triumph" FM-AM table radio, with giant dial for easy tuning, "Flexo-Grip" handle for easy carrying, and rich maroon plastic cabinet. Now at your Zenith Radio and Television dealer's.

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Friend to Friend

An exciting half-century

The year 1952 marks the fiftieth anniversary of the founding of *Successful Farming* as "the magazine of farm business and farm homes." No other 50-year period has seen such changes in farming and farm life as those taking place since 1902.

In *every* issue, *Successful Farming*'s editors and advertisers have brought the cream of American farmers the latest news on farm business, methods, and equipment. And what exciting developments during the past 50 years! The horse collar gave way to the power take-off, the husking peg to the mechanical picker. Practical soil conservation, hybridization of crops and animals, and the use of chemicals and "wonder drugs" are now commonplace. The list could go on and on.

And, equally important, *Successful Farming* during its first 50 years has striven to inspire and help its readers into a higher physical standard of living, wholesome family life, and enlightened citizenship. It will continue to do so.

For your enjoyment, we'll present in several issues this year a column or two of "flashbacks" to the news and views found in the early issues of *Successful Farming*. Chances are that after you've read them, you'll prefer today's farming to that of the "good old days."

Seed catalogs

Seed catalogs will soon start showing up in farm mailboxes. Their bright pictures make it easy to forget the snow and cold out of doors. And they are a pleasant reminder of the flowers and good crops produced in the year just past.

Many times I have said in these columns that most farms need better lawns and more flowers. Thanks to the seed catalogs, a favorable season, and more general interest, farm yards were beautiful in 1951. I think the power lawn mower has given a lot of folks the courage to have more spacious lawns, too. Masses of brilliant flowers well placed in yards have caused our editors to pause and admire as they traveled country roads.

When people show a deep interest in their homes, they tell the world they are willing to fight for them. Fighting may not involve military duty, but instead an active interest in social and political affairs. Loss of what we prize in a home can be suffered in other ways than by military invasion from an enemy nation. Serious attention to the seed catalogs has, therefore, deep implications.

More grass

A favorable season for grass has demonstrated the blessings of this humble crop. Livestock and soil-improvement programs both have benefited greatly by its abundance. Certainly cool and rainy weather forced thousands to try grass silage for the first time, since hay curing was slow business. As a result, they will have plenty of good roughage. And the demand for more corn in 1952 will be easier to satisfy because so much good clover and alfalfa has been plowed under. Some farms now have more forage than livestock to eat it.

Hogs can and must use more green forage. How much of their total gain can come from grass remains a question. I believe the raising of hogs in great numbers will be profitable well beyond the limits of the Cornbelt if grass is used correctly. Now we need to know how a heavy grass finish affects the quality of meat, the shrinkage of primal cuts, curing, the dressing percentage, and other points before we can be sure of ourselves.

I am unable to find information from any agricultural experiment station on the effect of 10, 20, 30, or 40 percent grass in finishing a hog. We also need information on the best kind of forage. Ladino seems to be the best hog fattener. Perhaps certain supplements will be needed. The prospective need for meat is so great that every means of producing it must be explored.

Loose dairy housing

After 10 years of comparison with warm stanchion-barn housing at the University of Wisconsin, the cold loose-house type has proved equally satisfactory. Herds in the loose barn ate 3 to 6 percent more roughage than those in stanchions. They had fewer injuries.

Labor requirements were smaller in the loose barn, but 10 percent more bedding material was required. Loose housing in a warm barn was unsatisfactory. Individual conditions and desires will mean both types of barns will be standard practice in the future. Labor and costs of housing must be very important factors.

This study was a joint project of the University of Wisconsin and the United States Steel Company. Its findings represent a break from long-established practice.

Kirk Fox

"I was Sergeant Richard Murphy

with a supply squadron in the Tenth Air Force during World War II. Day after day, we saw planes loaded with more gasoline than my car now uses in a year. But we never ran out of gas."

That was true because, back home, the oil companies expanded their output of aviation gasoline fifteenfold. And most of it was a super-quality product, unknown a few years before.

During the war you never heard anyone say that some of the oil companies were "too big," and it's no more true today than it was then. The way things are going in the world, we can all be thankful that we have some big ones. National security requires them.

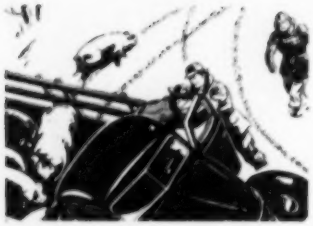
It takes a good many thousand separate oil companies —large and small—to serve America's needs. Through their efforts, petroleum has steadily become more useful and more widely used. It has probably had more to do with improving the daily life of the American people, during the past 50 years, than any other one thing.

Standard Oil Company (INDIANA)

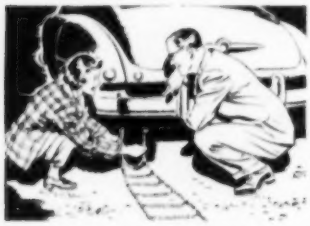
FROM THE TANK WAGON days of 50 years ago, America has grown—and so has Standard Oil. We and our subsidiary companies have more than 46,000 employees, working together from the ground up to help meet your demand for quality petroleum products at economical prices. In 1899, ten years after we started business, the United States still had less than 76 million people, who used 57 million barrels of oil. In 1950, 151 million Americans used well over 2,000 million barrels of oil.

AS STANDARD OIL has grown, the number of our owners has grown. One of our 116,000 owners is Mrs. Isabel Ley of Grand Rapids, Michigan, who has been a Standard Oil stockholder for more than 20 years. Also among our owners are many educational institutions and charitable organizations, hundreds of insurance companies and business firms. No one person owns as much as 1% of our stock; no institutional owner has as much as 4%.

OUR CUSTOMERS have made us big. We have millions of customers, among them the Knutson family of Chicago, Illinois. All of them are free to buy from our competitors. But they buy our products because they like our quality, values, and service—and we hope, because they like us. We are working to hold our customers, seeking always to be big enough and good enough to serve them better and better.

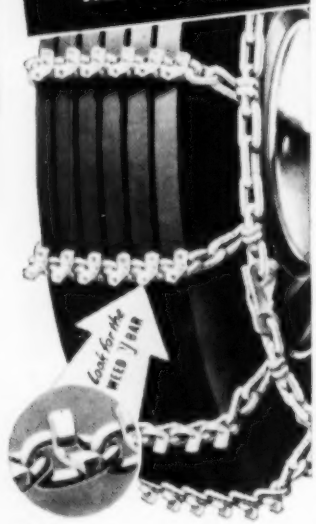


SKIDDED—Load of hog profits wiped out in split-seconds by skidding on icy road hidden by snow. Use Weed Tire Chains and drive carefully.



IT'S EASY to put on chains with Weed Zip-On Tire Chain Appliers. Keep a pair handy.

ASK FOR WEED AMERICAN V BAR-REINFORCED TIRE CHAINS —They REALLY GRIP



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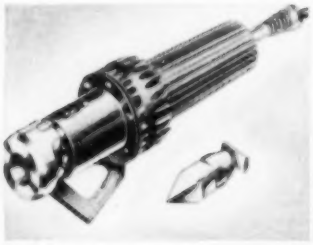
What's new in farming

Tips you can use today

Electric dehorner. This dehorner is equipped with an automatic thermostatic control which maintains the correct temperature for dehorning. The controlled



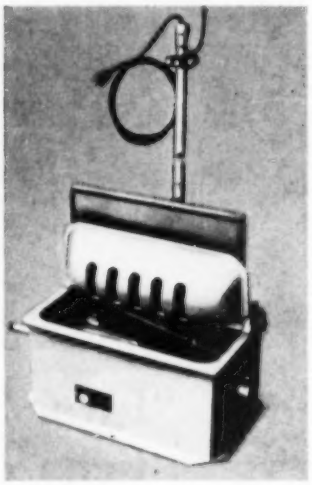
heat is said to kill all the horn cells around the base of the horn. The dehorner is sold with a soldering tip which converts it into a heavy-duty soldering iron.—*Sunbeam Corporation, 5001 W. Roosevelt Rd., Chicago 50, Illinois.*

Irrigation-canal liner. A new product designed to control seepage and erosion in ditches and canals is now on the market. The liner is a glass-fiber-reinforced, prefabricated asphalt membrane for installation on bottoms and sides of most types of canals and lateral ditches. The liner also may be used in stock and irrigation ponds and swimming pools.—*Owens-Corning Fiberglas Corporation, Toledo 1, Ohio.*

Soil-saving implement. A machine which is said to help control soil erosion and save moisture is now on the market. Self-scouring spinner breaks up hardpan

and allows surface water to drain in and collect underneath. As the spinner bores a channel below the ground level, it backfills its own course with pulverized earth. The pulverized earth is then able to absorb moisture and cut down runoff.—*The S. & S. Manufacturing Company, 124 Warren St., Waitsburg, Washington.*

Pressure hog waterer. This heavy, cast-iron, sheet-steel waterer hooks up with any normal pressure water system. It is thermostatically controlled to prevent freezing in the coldest weather. The heat-



ing element consumes no electrical current when the air temperature is above the thermostat setting.—*James Manufacturing Company, Fort Atkinson, Wisconsin.*

New wheat variety. A new variety of wheat, as yet unnamed, has been approved for release on farms by the Kansas State College Experiment Station. CI 12128, as the variety is designated now, appears to be equal to Pawnee in yield, test weight, time of maturity, straw strength, height, and susceptibility to stem rust. It may appear to lodge before maturity, but generally doesn't break over or go completely down.

Grain swather. This center-delivery swather opens all types of grainfields without running down standing grain. The heavy-duty, self-propelled swather has a variable-speed drive ranging from 2 to

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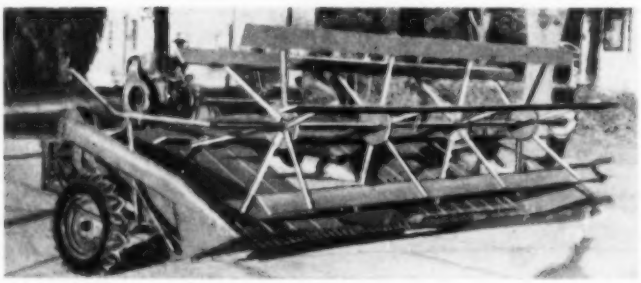

owners prove... more pull-power ...with a McCormick® FARMALL® Super C

"It's a real lugger..."

The Super C delivers so much *pull* from its horsepower that owners say it's tops on *every* job. They like the way the Super C breezes along with 2-plow, 2-row mounted implements in toughest going. They *marvel* at the way Super C balanced weight provides *traction* for trailing implements and other heavy *drawbar* loads. You get all-season, all-job pull-power with a Super C.

"My gas man is complaining..."

Try your IH dealer's Super C demonstrator on a day's hard work ... measure the fuel you use. Owner after owner reports that the Super C does as much work as many other tractors *on 15 to 25 per cent less fuel.* That's because power of the thrifty valve-in-head engine is properly balanced with tractor weight, then converted into positive traction by the big, 54-inch-high tires.

"Slickest tractor for planting..."

Cross-check, hill-drop or drill up to 35 acres a day with a Super C and McCormick *forward-mounted* corn planter. With disc brakes and super-easy steering, you turn *fast* at the ends. You get biggest yields, too, because you can plant the exact number of kernels to *match the fertility level* of your soil, while applying just the amount of fertilizer you need.

"I like the UP and DOWN hydraulic pressure..."

Farmall hydraulic Touch-Control lets you apply *down pressure* to either or both gangs of the Super C cultivator, *individually.* You also can raise or lower each cultivator gang separately, or use delayed lift for the rear section. Hydraulic pressure up or down is *continuous,* whether clutch is in or out, whenever the engine is running. Hydraulic Touch-Control is *complete* control!

You can prove it, too!

Prove to yourself that the Farmall Super C leads the 2-plow, 2-row field in pull-power, in fuel economy, in speed and quality of doing ALL farm work! . . . Arrange with your IH dealer NOW for a Super C pull-power test on your own farm.

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The Flavor All The World Loves Best
...Heinz Tomato Ketchup!

This Wonder-Working Sauce Is So Tempting It's The World's Largest-Selling Ketchup!

YOU CAN PUT THE REASON for the popularity of Heinz Ketchup in one sentence: *No other ketchup tastes like* **Heinz!** Here's why: Heinz chefs blend together flavor-laden Heinz "Aristocrat" tomatoes, mellow vinegar and rare spices. Liven thrifty meats and leftovers with Heinz Tomato Ketchup. It's so rich, full-bodied and concentrated, it actually goes further! And you **know** it's good because it's **Heinz!**

HEINZ
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● English-style HEINZ WORCESTERSHIRE SAUCE gives sprightly flavor to stews or hash! Keep a bottle on the table, too, for those extra little touches of flavor that make your money-saving dishes taste great!

● You can count on HEINZ OLD-FASHIONED MUSTARDS —mild, tangy Yellow and full-strength Brown—to glorify ham, cheese sandwiches and countless leftovers!

Books

for your pleasure and profit

By Robert West Howard

January is a good month to have a look at some of the books that can be of help in family living. Here are a few reading suggestions for the varied facets of family life . . . from "What's wrong with Junior?" through a new United Nations cook book, to the exciting life story of a woman who lived inside Russia until 1946.

I don't believe there's been a book published during the past 10 years as important for parents to read as **Their Mothers' Sons** by Dr. Edward A. Strecker, professor of psychiatry at the University of Pennsylvania (J. B. Lippincott, Philadelphia, $3.50). This is a skilled, clear discussion of the parental influences that cause children to develop into selfish, weak-willed, immature adults.

It explains what happens to youngsters who stay "tied to mothers' apron strings," and cites cases from World War II records of men and women who became alcoholics and moral cowards because of too much "mama and papa." There are sound suggestions here for every parent.

During the Rural Reading Conference in Washington last fall, I asked a number of authorities about books that best tell parents what youngsters deserve to read and own. They were unanimous in their recommendation of: **Books, Children, and Men** by Dr. Paul Hazard (The Horn Book, Inc., 248 Boylston Street, Boston, $3); **Books and Young People—an Ample Field** by Amelia H. Munson (The American Library Association, Chicago,) and **My Road** by Anne Carroll Moore (Doubleday, New York, $2).

Books, Children, and Men is a charming little history of children's literature from the appearance of "Mother Goose" and "Little Red Riding Hood," on down time's sugarplum road to "Peter Pan" and Charles Kingsley. No mother reading this can fail to gain new understanding of children's reading habits and needs.

Books and Young People—an Ample Field contains excellent lists of the all-time classics among children's books.

My Road is Miss Moore's reflections on children's books after 20 years as superintendent of work with children in the New York Public Library.

A mighty important realm of family life centers on the dinner table. We spend an eighth of our lives eating. Agriculture devotes about 80 percent of all its energies to the problems of food production. **Food for Home Use** by Stanley Wall and Carsie Hammond of the University of Kentucky (Windsor Press, Chicago 11, Illinois, $3) is a new book that follows the process straight through, from the spring gleam in a farmer's eyes to the last jar of cherry preserves in late fall.

The authors begin with a discussion of nutrition, the farmer's share of the food dollar, and the amounts of food needed each year by a family. They move skillfully into handbook directions on vegetable gardens, fruit culture, and pork, beef, poultry, and dairy production. There are excellent chapters, too, on processing, conserving, and storing home-grown foods, plus a 32-page chapter on "Processing and Storing Meat." Here's a home textbook on the production and processing of food; 288 pages, with excellent charts, photographs, and drawings.

Sure as shooting, somebody in the community has been tootling around the world recently. He probably likes to talk about the food he ate in other countries, but can't remember the recipes. You can surprise him with a United Nations dinner concocted from **The World's Favorite Recipes From the United Nations** (Harper & Bros., New York, $1). This slender volume, edited by the American Home Economics Association, contains favorite recipes from 59 countries.

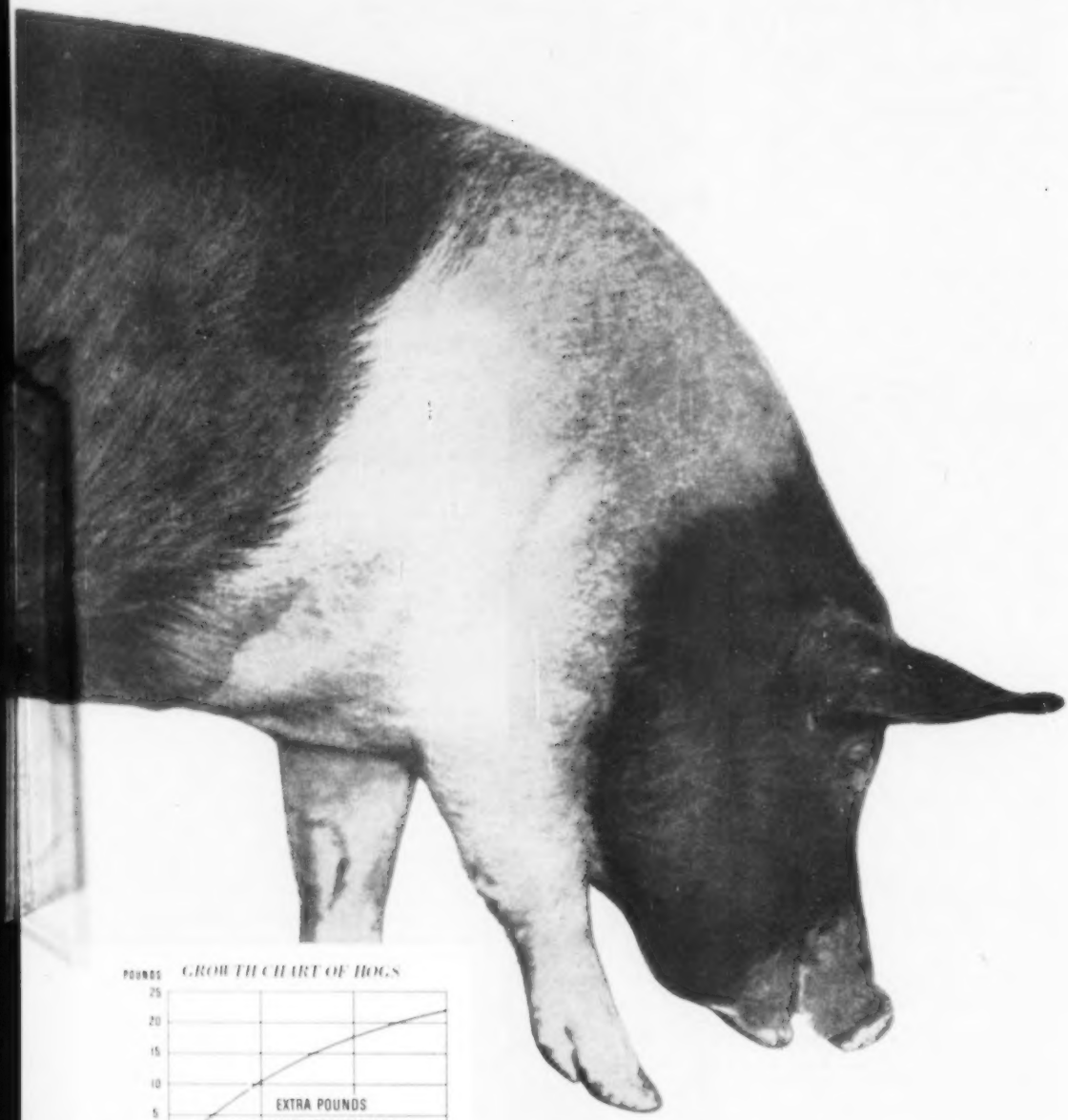
Worth reading aloud to menfolk, when they argue about meals, is an all-time foods classic, **The Physiology of Taste,** by Jean Brillat-Savarin. This was written more than a century ago and has just been reissued in a low-priced edition (Liveright Publishing Corp., New York, $2.49). Monsieur Brillat-Savarin contends that canvasback duck, diamond-back terrapin, shad, soft-shell crabs, scallops, yellow corn, pineapple, smelts, grapefruit, alligator pears, sweet potatoes, and bananas are the "crown jewels" of the American cuisine. "Tell me what a man eats," he said in 1838, "and I'll tell you what kind of a man he is."

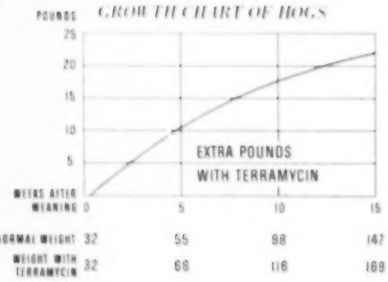
January's a good home-planning month, too. Decorators and amateur painters should like **Folk Art Designs** by Julienne Hallen. (Garden City Books, New York 22, New York, publishes this for "Homecrafts," $2.50). It contains more than 100 art designs that can be stenciled on furniture, traced on pottery, or painted on neckties, blouses, and what have you. There are Early American, Pennsylvania Dutch, Indian, Mexican, Chinese, and European designs.

And, so far as 1952 is concerned, the most interesting-looking engagement calendar I've seen is **The Flower Arrangement Calendar** by Helen Van Felt Wilson (M. Barrows & Co., New York, $1). There's a full-page photograph of flower arrangements, with caption instructions, for each week of the year. The photographs are selected annually in a contest among garden clubs.

The plain truth about everyday life in Russia bubbles from **Journey Between Freedoms** by Tanya Svetlova Matthews (Westminster Press, Philadelphia 7, Pennsylvania, $3.50). This is her autobiography of the grim years between her physician father's death in a Cossack village in 1919 and her final flight from Russia with her husband, a British newspaper correspondent, in 1946. She describes bandits and lootings, childhood winters without shoes, schools under Communism, office jobs in Moscow, the Russian farms where soap and land ownership are twin myths. Mrs. Matthews writes starkly of the secret, soul-hungry life behind the Iron Curtain.

Her book is a good note to end on . . . a sound reason for all our study on better family living and family freedoms. **END**





As you see from the chart, Terramycin has produced 15 per cent to 31 per cent faster growth in hogs. Terramycin, discovered by Pfizer, world's largest producer of antibiotics, is available to your hogs in the feed supplements of leading manufacturers. Does the feed you buy contain Terramycin?

Terramycin

the newest of the wonder drugs

Pfizer

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to help you live better longer

New income-tax law

By Earl Crouse
Doane Agricultural Service

Your tax man will be easier to deal with this year than he was last. The new income-tax law which went into effect November 1 ups the tax rate on taxable income. But it spells out the *rights* of farmers much better than before. (See: "Know Your Rights on Income Tax," December, 1950, *Successful Farming*.)

Livestock. Farmers won their fight to get livestock held for dairy, breeding, or draft purposes classed as capital assets. Included are all dairy cows, breeding animals, and draft animals *that have been owned* for 12 months or longer. Poultry is specifically excluded in the law. Age of the animal apparently is not important. But it is up to the farmer to prove that animals sold *were* being held for dairy, breeding, or draft purposes, and not merely for sale.

Sales of livestock held for dairy, breeding, or draft purposes are reported on Schedule D (filed with Form 1040) rather than on 1040F. In most cases, only 50 percent of the gain from such sales is taxable. The maximum tax payable on such sales is 26 percent of the gains reported.

The Bureau of Internal Revenue has yet to rule on just what constitutes proof that an animal was held for dairy, breeding, or draft purposes. However, from a practical point of view, it would seem that a heifer that has dropped a calf or a bull that has been used regularly in the herd would be proof enough.

Younger animals that have been purchased for the breeding herd and then sold because of injury or defect would also appear to come under this regulation—provided they had been owned 12 months or more.

Let's see how this works. Jack Mahoney, our neighbor, likes his purebred black cattle, but they give him a lot of tax problems. He is able to sell all the good animals to other farmers and breeders. Last year he sold 8 cows, 6 bred heifers, a yearling bull, and 3 older bulls out of his show herd. He also culled 5 old cows and trucked them with his aged bull to the stockyards at Omaha. Local farmers bought 10 bull calves, and he sold 35 head of plain yearling steers as feeders.

The way the new law works, Jack figures he will be able to report the income from the 8 cows and 3 older bulls out of his show herd as the sale of capital assets. The 5 cull cows and the old bull sold at the stockyards will also be reported under capital gains. The income Jack received from the other animals must be reported as normal income, because in the eyes of the law he was holding them for sale.

Another neighbor of ours is in the dairy business. He recently sold for $150 a cow that went bad. He paid $325 for her a little over one year ago. He will report this sale under capital gain and claim a capital *loss* of $175 which will be *deductible in full* from this year's income.

The lawmakers made the capital-gains provisions in the new law retroactive to January 1, 1942 (on the basis of a 6-month holding period). Information on exactly what this means is very tight. Legally, tax files are closed after 3 years unless evidence of fraud is discovered. Back of that, about the only way you could benefit would be if you had a case in the courts.

Probably about all the internal-revenue agent will do in a case which is still open will be to recalculate the tax on the basis of the new law—if the report is in compliance with the new law, the case will probably be dropped. Official procedure may not be announced for some time, but this is the way such retroactive clauses have been handled in the past.

Apparently you can file for refund on any tax year which has not yet been officially closed. However, many farmers have regretted such actions in the past. The reason is that when you file for refund the tax agent goes over your return with a fine-toothed comb. Unless the possible savings are large and you have very complete records, you may decide to let bygones be bygones. However, farmers who have already been through a complete checking should have nothing to lose.

Farm home. A second important change in the new tax law is that you pay no tax (normal or capital gains) on the profits obtained from the sale of your home—*if you buy another home of equal or higher value within 12 months or build within 18 months.* With the home goes the service building connected to the house. The barn and other outbuildings must be counted as part of the farm. This ruling puts the farm home on the same basis as a house and lot in town.

Just how this part of the law will work remains to be seen. But when Martin Black of Newton sold his farm last month, he had the papers made up to show the sale price of the house separate from the rest of the farm. He had the real-estate man figure the breakdown for him. It might have been safer to have hired an accredited appraiser, but so long as the breakdown is reasonable he should have no trouble.

Martin's farm had 200 acres in it and the sale price was $60,000. The real-estate man put $45,000 of this on the farm and $15,000 on the home with its service buildings and grounds. Maybe he should have had two deeds made, but that seems like unnecessary expense. You should, however, check with your local authorities if you have a similar case to report.

Martin Black bought his place in 1932 for $12,000. Of course, he has done a lot of improvement since then. The house was built since the war. As near as Martin could figure, the land represented $10,000 of the original purchase price in 1932—the old house, $2,000. It's a long story, but the way Mr. Black has it figured he must pay a capital-gains tax on $35,000 which shows the increase in the

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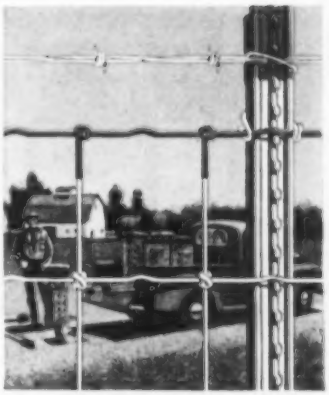

You can't help noticing Red Brand fence

. . . you see it so much oftener.

On farm after farm you see the familiar red top-wire that identifies long-lasting Red Brand fence. That's because so many farmers recognize its extra value. They know, from experience on their own farms, that Red Brand fence and Red Top steel posts is a combination that can't be beat.

There's a good reason: the wire in Red Brand fence, made in Keystone's own wire mills, contains the right amount of copper for rust resistance. And, in addition, Red Brand fence is Galvannealed for even greater resistance to rust, for even longer service life on the fence line.

If you're interested in extra value, insist on long-lasting Red Brand fence. If you don't know the name of the Red Brand dealer located nearest to you, write: Keystone Steel & Wire Company.

Red Brand Fence

Keystone Steel & Wire Company
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MAKERS OF RED BRAND FENCE • RED TOP STEEL POSTS • POULTRY NETTING • NON-CLIMBABLE FENCE • NAILS • BALE TIES • GATES

It's Easy to INSULATE Your Home—Do it Yourself and Save $50.00...$100.00

ZONOLITE† Vermiculite Can Be Installed In One Afternoon

Imagine!—For as little as $67.60* you can insulate your home, and you cut your fuel bills up to 40%! Zonolite vermiculite Insulating Fill is the wonder mineral insulation that is easiest of all to install. Just pour it from the bag, as easy as pouring popcorn, into attic joists or sidewall studs. You'll see the difference in your fuel bills immediately! Think, too, of the added comfort both summer and winter.

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ZONOLITE CONCRETE ASSURES WARM, DRY FLOORS, INCREASED FARM PRODUCTION

Find out how you can have healthier, more productive chicks when Zonolite concrete is used for henhouse floors. These floors cut chick losses, actually insulate, keep hens warm and dry.

Three out of every eight young pigs die from cold and damp floors, statistics show. Protect your pig breeding profits by using Zonolite concrete in farrowing houses.

Zonolite concrete in dairy barns provides a 50° temperature inside, even when it's below zero outside. Cuts down the amount of feed needed—makes cows more productive.

Send coupon below for FREE booklet, "Farm Insulation with Double Efficiency." Tells how to insulate your home and other farm buildings easily and at low cost.

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Please send me free of charge, your latest booklet, F-1 "Farm Insulation with Double Efficiency."

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†Zonolite is a registered trademark

AT LUMBER AND BUILDING SUPPLY DEALERS

New income-tax law

[*From page 15*]

sale price of his land ($45,000 less $10,000 purchase price).

The $15,000 put on the house will be used to buy the Blacks a modest home in town. They will pay no tax so long as they buy a house of the same or higher value. Fred Torgerson, who bought the Black farm, is glad to have the paper showing the breakdown because he might want to sell out sometime, too.

Growing crops. When sold with the farm, growing crops are now counted as part of the sale price of the farm. This means that if you should sell your farm next fall with a 5,000-bushel crop of corn and a 3,000-bushel crop of soybeans just ready to harvest, the whole price would be reported in the *capital-gains* section of the tax form. Tax would be paid on only one-half of the increase in value computed on a capital-gains basis. You cannot, however, deduct the cost of producing the crop when you report its sale under capital gains.

Farmers' cooperatives. These organizations lose some of their tax advantage under the new law. All income retained by the cooperatives and not paid to farmers in taxable form is subject to tax at the same rate as corporations'. All patronage dividends and stock distribution received from co-ops must be reported by farmers as part of their farm income. The cooperatives are required to report all payments, to individual farmers, of $100 or more. They can be requested to report on smaller distributions. Co-ops must open their books for inspection by the internal-revenue agent at any time.

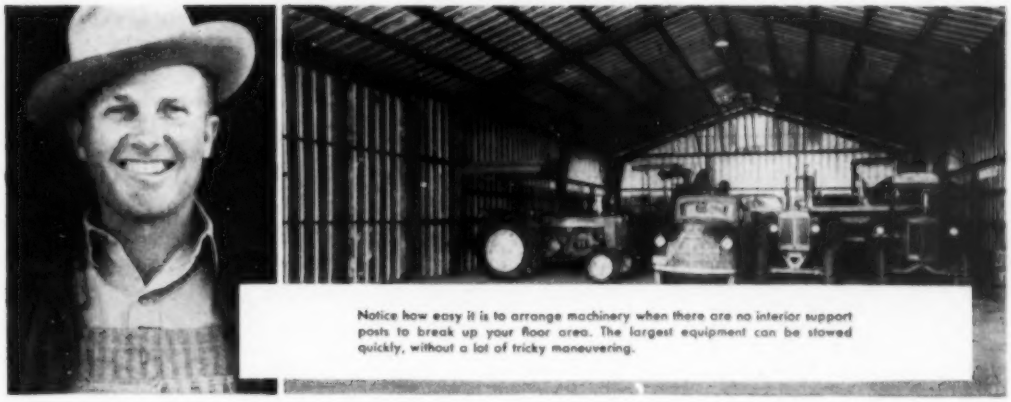
Warning. The law is new and still subject to interpretation by the Bureau of Internal Revenue. Be sure to check with your revenue agent, a tax attorney, or a qualified accountant before you turn in your federal income-tax report. **END**

Portable chick pen

To keep young chicks off ground contaminated by older birds, John Rehkemper, Clinton County, Illinois, built this portable pen.

Rehkemper didn't want his baby chicks out on open range away from the buildings because he couldn't keep a close watch on them. The portable pen solved the problem. Young chicks can be brooded right at the farmstead without fear of contamination from older poultry.

When the chicks grow older and require less care, the pen can be pulled away and the brooder house moved to clean range.—*Francis Kutich.*



Notice how easy it is to arrange machinery when there are no interior support posts to break up your floor area. The largest equipment can be stowed quickly, without a lot of tricky maneuvering.

"Steel buildings provide safe storage for grain and machinery"

says Marvin Price, Mullinsville, Kansas

Read what a successful farmer like Mr. Price has to say about all-steel farm buildings.

"In the past few years I have found an increasing need for all-steel farm buildings in my farming operation. I erected an all-steel building this past year and find it satisfactory in every respect.

"Steel buildings are permanent, fireproof and provide a safe storage for grain and machinery against weather hazards and fire. The upkeep is practically nil.

"I find that if a farmer is to increase his profits, he has to reduce his overhead and protect his investment in machinery, and reduce the spoilage of grain. These all-steel buildings will best solve this storage problem we are all confronted with."

Steel buildings give you the most *practical* construction for your money. Steel buildings are strong and durable. They stay weather-tight because rigid galvanized steel sheets are securely attached and can take the knockabout service of everyday use.

Steel buildings can be erected with doors and windows where you want them. You *don't* need interior support posts. The obstruction-free floor space makes it easy to move and store machinery. You can use all the space.

Steel buildings are the best fire protection. This often means lower insurance costs on buildings and equipment. For more information about steel farm buildings, use the coupon below.

Strong all-steel buildings stay trim and neat, because they require very little maintenance. And if you ever want to sell your farm, remember steel buildings often increase the value of your farm far more than the modest cost of the buildings.

Send the coupon for further information

Agricultural Extension Bureau
United States Steel Company
Room 4322, 525 William Penn Place
Pittsburgh 30, Pa.

Please send me free literature about steel farm buildings. Building will be used for .....

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Approximate size or capacity .....

Send information to:

Name .....

Address .....

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United States Steel Company is a steel producer, not a steel fabricator. Your request, therefore, will be sent to building manufacturers who fabricate steel buildings for farm use.

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UNITED STATES STEEL

The farmer's Washington

By Richard Wilson

- **U.S.D.A. tries to operate in secrecy**
- **Family-farm review is suspect**
- **Flooded out? Uncle Sam will help you**

More secrecy. There was quite a political ruckus in 1950 when it was charged that federal farm employees were politicking in Iowa contrary to the law. Now the Civil Service Commission has held a hearing on the charges, involving Alvin J. Cook, Iowa director of the Federal Crop Insurance Corporation. But the hearings were secret, although a previous "tentative" finding had been made of violations of the law in Iowa. Two P.M.A. officials also were charged with politicking in the Iowa senatorial campaign.

But the details will never get out officially. There is more and more of this kind of secrecy in official Washington, and it is becoming increasingly hard for the public to get the facts on how its government operates.

Farmers' "Guide." That famous 122-page booklet, *Family Farm Policy Review*, issued by U.S.D.A., is not, according to Agriculture Secretary Charles Brannan, an effort to "sell" the Brannan Plan, or any other plan, to the farmers at government expense.

It is just a "guide" for discussion leaders, according to Brannan.

But a more careful reading shows that this "guide" offers the following tentative recommendations to "stimulate" the thinking of farmers:

1. A proposal to allot more funds for the use of local production and marketing committeemen. (The Hoover Commission has recommended the committees be abolished.)

2. "Direct payments have been suggested as an alternative method to the conventional price-support program for assuring producers adequate returns. This type of program has the advantage of keeping supplies in normal trade channels and allowing the market price to seek its own level." (This is the Brannan Plan.)

3. Farmers are asked to give "careful study to the possibility of using land acquisition and subsequent land redivision into family farms and resale to private owners—for helping farmers hasten adjustments where their farms are clearly too small." (This has similarities to the old Resettlement Administration under C. Benham Baldwin, now a leader of the "Progressive" party.)

4. Farmers are asked to discuss freeing the extension service "from any operating relationships in any state and county with any general farm organization to assure that it is recognized as a public educational agency available to and operating in the interests of all farmers on an equal basis." (Brannan would like to do that very much.)

The booklet is, indeed, a "guide," a guide to the policies Brannan would like to adopt.

Potato revival. Farmers who don't grow potatoes for market may not know that all seems to be well in this big business, now that federal price supports have been dropped.

Only a year or so ago, the big payments (some running into five figures) made to potato producers were a national scandal. Total government loss in a 15-year period was $537,000,000.

For 1951, the government didn't pay out a cent to the potato growers.

It worked out this way: As long as the government guaranteed a big price, growers produced more potatoes than could be used or stored. When the price guaranty was dropped, production dropped and potato prices more than doubled, from $1.13 to $2.74 per bushel.

It does not follow, however, that the same thing would happen in the case of corn and wheat, which can be stored for relatively long periods of time. Potatoes spoiled right away, and there was no economical way to store them from season to season.

At least, this whole experience may help to teach American consumers the worth of a good potato—and farmers may get the sneaking idea that maybe they could get along without price supports after all.

A mistake. It isn't often that U.S.D.A. goes far wrong on its crop estimates. But in 30 days between the October report and the November report, cotton estimates dropped 1.2 million bales. This was nearly a million bales under the lowest estimate of the cotton trade. Natural result: Prices went up. Everyone in the cotton business is trying to find out just who went wrong, and why.

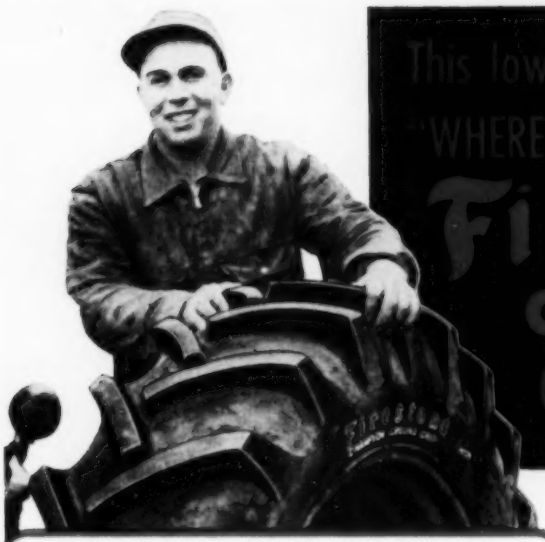
Flood damage. A precedent has been set in helping farmers which may have important results over a long period of time. It just happened that there was a bad flood in Kansas, Missouri, and adjoining territory at a time when a president of the United States from Missouri was in the White House.

This flood which rolled over towns and land he knew so well really impressed Harry Truman.

The result is that a very liberal flood-relief program was initiated by the administration and adopted by Congress.

Now, under regulations just issued in accordance with this program, the fed-

[*Turn to page 20*



This Iowa Farmer Says:

"WHERE OTHER TIRES HANG UP

Firestone

CHAMPIONS

GO RIGHT ON THROUGH"

"I farm 210 acres of black loam, and for the kind of soil conditions I have, I like these Firestone Champions best. When the ground is hard, they bite in and take a good hold — and when it's soft, they take me through where other tires hang up."

W. E. WEDEMEYER, DONAHUE, IOWA.

MORE AND MORE farmers are switching to Firestone Champion Open Center Tires—and glad of it! They find that the bars take a sharper bite because they're tapered, take a stronger hold because they're curved. And, because the tread of this tire is wider and flatter, it has more bar rubber to grip the soil for extra traction, more bar rubber to stand up on the road for extra traction life.

Try a set of Firestone Champion Open Centers on your tractor. Or, if you prefer Firestone Champion Traction Center Tires for your soil conditions, you can get them, too. Only Firestone offers you a choice between the most advanced Open Center and the one and only Traction Center Tire on the market today.

Always Buy Tires Built By FIRESTONE, Originator of the First Practical Pneumatic Tractor Tire

Enjoy the Voice of Firestone on radio or television every Monday evening over NBC

Copyright, 1951, The Firestone Tire & Rubber Co.

You Can Get 3 lb. Chicks in 10 Weeks on 9 lbs. of Feed

Cut death losses and breakdowns

... if You Feed and Manage right

HERE'S HOW RUSSELL HARTSOUGH, ROUTE 3, BREMEN, IND., DOES IT WITH *MURPHY'S VIG-O-RAY CONCENTRATE* AND HOME-GROWN GRAINS

JAMES H. MURPHY, *President*
MURPHY PRODUCTS CO.

At 10 weeks these chicks averaged 3 lbs.

This picture shows some of the 8,000 straight-run hatchery chicks fed by Russell Hartsough. He keeps accurate records and knows exactly what his chicks are doing all the time. He says:

"*When this picture was taken these chicks were 8 weeks old, and some of the broilers weighed 2½ lbs. At 10 weeks the entire flock average was 3.1 lbs. Each pound of gain was made with only 2.86 lbs. of feed. The death loss was exceedingly low. I didn't even lose all my extras. I got these excellent results by feeding mashes made according to directions with MURPHY'S VIG-O-RAY CONCENTRATE.*"

Now, Mr. Hartsough's experience is not unusual, for it's being duplicated by thousands of MURPHY feeders all over the Midwest. With good stock, proper care and sanitation, and the right feed there's no reason why you can't do it too with *your* flock, right on your own farm.

What's the Secret?

Well, it's no secret at all. Any chick, no matter how good, in order to live and stay healthy, has to avoid infection and disease. When fed properly it *stands a good chance* not only of surviving, but paying you a profit, as well. Chicks need a proper balance of proteins, minerals and vitamins in their rations, and since farm feeds do not usually supply this balance, it will pay you well to fortify farm grains with MURPHY'S VIG-O-RAY CONCENTRATE. In *one* bag MURPHY'S VIG-O-RAY CONCENTRATE provides the extra essential protein, mineral and vitamin substances required to do this job—including the new antibiotics and Vitamin B_{12}. This better balance of essential nutrients promotes faster, healthier growth on less feed.

Cuts Death and Breakdown Losses

Poor feathering, curly-toed paralysis, rickets, nutritional roup, slipped tendons, leg weakness, cannibalism, toe-and feather-picking are signs of nutritional deficiencies. Proper feeding helps cut these down and builds bigger, healthier birds in a shorter time.

Simple, Easy and GUARANTEED!

Here's a simple, easy, low-cost way to make sure your chicks get the feed essentials they need. Just mix, or have your dealer mix:

200 lbs. MURPHY'S VIG-O-RAY CONCENTRATE
100 lbs. wheat middlings
50 lbs. No. 1 alfalfa meal
100 lbs. ground oats
300 lbs. ground yellow corn

Feed this mash to your chicks and watch them thrive and grow! Improved vigor, faster growth, lower feed costs are **GUARANTEED** when you feed MURPHY'S. Go in to your Murphy Dealer's today!

What about your laying flock? If your hens are dropping off in production and suffering breakdowns, why not cut down these troubles and your cash outlay for feed at the same time? Use an egg mash made with MURPHY'S VIG-O-RAY CONCENTRATE and your own ground grain. It's GUARANTEED! Ask your Murphy Dealer about it.

MURPHY PRODUCTS CO.
BURLINGTON, WISCONSIN

Farmer's Washington

[*From page 18*]

eral government will make direct cash payments of up to $2,500 to farmers who have been flooded out.

There are strings tied to the payments. Farmers must follow federally approved practices in erasing the damage of floods from their lands, insofar as they can. This includes leveling off gullied land, ditching, draining, repairing fences, and so forth. No ceiling was set on the sums which might be paid for these services in the law, but U.S.D.A. thought $2,500 would be enough.

City flood victims, however, can get only loans at low rates of interest to repair the damage to their properties.

The flood-relief bill is quite broad and does not apply alone to the Kansas-Missouri flood. If there is a new flood in other states before the funds run out, the victims there could get some of the money.

Congressional authorities believe a pattern has now been set, and that aiding flood-relief victims will cost the federal government a great deal in future years.

Cheese imports. A very small amendment to the Defense Production Act has caused a large amount of trouble for the federal government. This was the amendment requiring a cut in cheese imports. It was adopted in conjunction with a continuation of the limitation on butter imports.

Eleven countries have formally protested to the United States. American Ambassador Eugenie Anderson says the amendment has "seriously shaken the confidence of the Danes in the consistency of basic American policies."

The State Department has demanded repeal of the amendment. Congressional leaders have promised to give this appeal consideration in January. The amendment protects principally the producers of Blue cheese. There are 22 plants in this country.

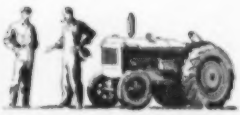
Smart move? The farm politicians in Washington are talking to each other about the employment of Frank K. Woolley, one of the top officials of U.S.D.A., by the American Farm Bureau Federation. Woolley has been director of the Commodity Credit Corporation and special assistant to Secretary Brannan. He has been widely praised in Congress and is considered to be an able man.

Roger Fleming, Washington representative of the Farm Bureau, sees nothing particularly surprising in the Farm Bureau's hiring one of Brannan's close associates. "We needed a lawyer who knew the Department of Agriculture and agricultural legislation inside out. Frank Woolley fitted our requirements. That's all there was to it," Fleming said. END

SUCCESSFUL FARMING

"Did you get one of him blowing the candles?"

THE TANK TRUCK



Haying is the biggest single operation on the Hall ranch. A rider could start at one corner and ride for 25 miles without ever getting off the ranch!

When the haying crew comes in for chow, the machines are lined up and the service crew goes to work. Fuel tanks are filled, oil checked, anything else necessary is done. Conoco Super Motor Oil is always used.

Cross-Breeding for Profit!

EVERY YEAR, on July 3, a crew leaves the ranch house to cut hay on the Hall Cattle Company ranch near Alliance, Nebraska. The next time they see that ranch house, it's September 15, 74 days later! The 26-man crew has cut the grass on 10,000 acres.

But this is just part of the operations of the ranch. On the other 40,000 acres, the Halls raise cattle . . . their own cross-breed known as "Acorn."

The Hall system of cross-breeding is complicated, but runs substantially like this: beginning with a herd of Hereford cows, the Halls breed them to registered Shorthorn bulls. Each year about 250 heifers are retained, and the herd again rebred to the Shorthorns. This goes on for 5 years, by which time the cow herd is practically Shorthorn. So the cycle is reversed . . . for the next 5 years the cows and heifers are bred to Herefords. The Hall records show that this system results in increased weights for yearlings, cows with better balanced milk flow, easier feedout, and an average of $3 a head more than purebreds at the market.

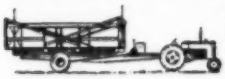
Nothing but Conoco lubricants ever goes into the machinery on the Hall ranch. "A good many years ago," says A. B. Hall, "I found that Conoco lubricating oil gave better starts in cold weather and better protection. Out here in the range country, it gets down as low as 35° below zero and it stays cold all winter.

"I don't know what you've got in that oil, but we get from one to two more seasons out of our equipment before we have to overhaul it, just by using Conoco lubricants. I'm sure it's that OIL-PLATING protection in cold weather that does it."

There's proof that you, too, can get one or two more seasons out of your tractors, trucks and other farm equipment. Right now, during this rugged winter weather, change to Conoco Super Motor Oil. Call your Conoco Man, today.

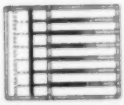
Trailer Pushes, too

Fabricate this power take-off trailer from truck frame, pick-up differential and transmission, suggests Donald Wesche, Verdigre, Nebr. Very handy to haul feed and hay in snow or on frozen ground.

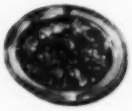


Sliding Truck Gate

This easy operating gate or "door" is never in the way at livestock chute or dock, say Howard and Haynes Kueckelhan, Bonham, Tex. Use 1½" pipe for main frame, 1" for gate. Smaller pipe slides easily inside larger pipe.



Baked Cabbage Rolls



. . . by Mrs. Jack Moore, Route 2, Mena, Arkansas

¼ lb. American Cheese
½ lb. ham
8 cabbage leaves
2 eggs
1 green pepper
1 cup tomato sauce
1 onion
salt & pepper
1½ cups cooked rice

Cut cheese into cubes, grind or chop cooked ham, chop pepper and onion, and beat eggs. Mix all together with cooked rice. Season with salt and pepper. Roll up in cabbage leaves that have been boiled a few minutes. Pack into baking dish, pour tomato sauce over top. Bake in moderate oven (350 degrees) for 30 minutes. Serves 6 to 8.

Send your favorite recipes to Mrs. Annie Lee Wheeler, Dep't. S, Conoco Cafeteria, Ponca City, Okla. A $7.50 pair of Wiss Pinking Shears awarded for every recipe published with your name. All recipes become property of Continental Oil Company.

FARM KITCHEN

"50,000 Miles-No Wear!"

After a punishing 50,000-mile road test, *with proper crankcase drains and regular care,* engines lubricated with new Conoco Super Motor Oil showed *no wear of any consequence . . .* in fact, an average of less than one one-thousandth of an inch on cylinders and crankshafts. AND gasoline mileage for the *last* 5,000 miles was actually 99.77% as good as for the *first* 5,000! This test proved that new Conoco Super, with OIL-PLATING, can make your cars and trucks last longer, perform better, use less gasoline and oil.

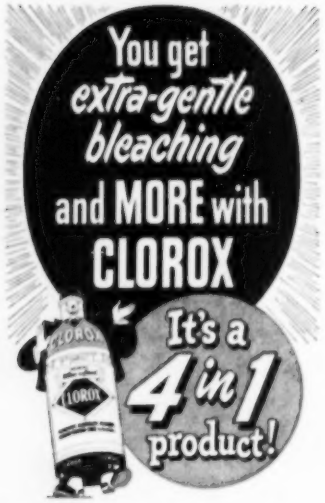
CONOCO

YOUR CONOCO MAN

CONTINENTAL OIL COMPANY

SAWS FOR IDEAS!

Send your original ideas to *The Tank Truck*, Dep't. S, Continental Oil Company, Ponca City, Okla., and get a genuine $10.25 D-15 Henry Disston Hand Saw for every idea that's printed!



1 AN *extra-gentle* BLEACH

Yes, Clorox bleaches extra-gently, conserves costly cottons and linens. You see, it's free from caustic and other harsh substances . . . made by a special formula protected by U.S. patent and used exclusively by Clorox!

2 A *dependable* STAIN REMOVER

Millions of women use Clorox for removing stains from white and color-fast cottons and linens, and from kitchen and bathroom surfaces, too. Let Clorox help with *your* stain problems.

3 AN *effective* DEODORIZER

A Clorox-clean wash always smells fresh, even when dried indoors. And in routine cleaning Clorox works wonders in removing objectionable odors, makes kitchen, bathroom surfaces fresh-smelling.

4 *In addition* CLOROX is one of the world's great DISINFECTANTS

A Clorox-clean home is a *safer* home for every member of your family. In laundering, or in routine cleaning, Clorox is the most efficient germ-killer of its kind . . . a type of disinfectant recommended by hundreds of Public Health Departments. See directions on the label.

You get all 4 in 1 with CLOROX *America's Favorite*

CLOROX-CLEAN *means* ADDED HEALTH PROTECTION!

Heats his hog house around the edges

Modern, basementless homes with perimeter heating have nothing on the hog house built by Richard Coddington, Princeton, Illinois. Coddington built a new 12-pen farrowing house in the fall of 1950 and installed a perimeter heating system. He figured the initial cost of the system would soon be paid back in the form of more pigs saved.

Perimeter heating means running the heat pipes below the floor and around the outside edges of the building. The furnace forces the warm air down into the under-the-floor ducts which then warm the floor and the building. The ducts are made of metal.

Cost of the furnace, including installation, was about $400. Heating costs ran about 50 cents a day in winter weather. Liquefied petroleum, commonly known as LP-gas, is used for fuel and is brought to the farm in metal tanks.

Temperature in the hog house is kept at 60 degrees during the farrowing period. Then, the temperature is slowly reduced to 40 degrees before the pigs are moved out of the farrowing house. The heating system eliminates drafts, which Coddington thinks are one of the most important causes of death during farrowing and the first few days after the pigs are born.

Each farrowing pen has a heating outlet in addition to the heat supplied by the warm floor. The heating ducts are 2½ inches below the surface of the concrete floor and are set in about 18 inches from the edge of the house.

Coddington farrows his sows in batches of 10, and about 3 weeks apart. He farrows about 60 sows per year. He keeps each sow and litter in the house for 2 to 3 weeks, depending upon the weather. Then, the sow and her litter are moved out to portable houses and another bunch of sows is brought into the house to farrow. The house can also be used for fattening hogs during the rest of the year.

Coddington believes the use of this type of automatic heating is highly practical from a cost-and-profit standpoint. For proof, he looks back at the record of 7½ pigs saved per litter. That record is enough to convince him that perimeter heating was a wise choice for him. He saves more pigs than before and the heating cost is low.

Photographs: J. E. Gallagher

Ductwork is laid for the perimeter-heated hog house when the foundation is built. Each pen area is supplied with one heating outlet. A furnace is in the center

The completed hog house takes care of 12 sows at farrowing time. Liquefied petroleum is used for fuel, and costs average about 50 cents per day in the winter

Smooth as a millpond...

that's the way you glide along with Dodge Oriflow Ride. Blindfold tests proved roughest roads feel highway-smooth! No other ride like it!

Visibility unlimited...

in every direction! Landscape windshield, narrow corner posts, eye-level side windows, tremendous rear window make driving safer.

Built for the rugged life

that's why dependable Dodge gives trouble-free performance for years. Like other owners you'll say, "Can't beat Dodge dependability!"

Again it's true for '52

If you love to live in luxury

here are rich decorator interiors . . . long, low lines. Truly limousine luxury for just a few dollars more than the lowest-priced cars.

You could still pay hundreds of dollars more for a car and not get all this great new '52 Dodge gives you!

Designed for those who'd love to live in luxury, but didn't know they could afford it . . . that's the breathtaking new Dodge for '52!

With all this style-setting beauty, inside and out—Dodge gives you greater roominess and comfort than many cars costing far more. Dodge gives extra headroom, stretch-out leg room to delight a car full of six-footers! And there's none of that "sitting on a cushion on the floor" feeling—for Dodge gives you knee-level seats that let you ride in relaxing comfort.

You'll never believe how much driving ease and comfort, safety, luxury and dependability Dodge offers until you drive one yourself. Experience the thrill of Dodge Gyro-Matic (America's lowest-priced automatic transmission). Your Dodge dealer will welcome the opportunity to let you drive this Dodge. Drive Dodge 5 minutes—you'll drive it for years!

Specifications and equipment subject to change without notice.

Big new dependable '52 DODGE

You too can get this calibre of insurance protection and service by doing business with the America Fore insurance man in your locality. For his name call Western Union (by number). Ask for Operator 25.

THESE FIVE COMPANIES COMPOSE THE AMERICA FORE INSURANCE GROUP

CONTINENTAL • FIDELITY-PHENIX • NIAGARA • AMERICAN EAGLE
FIDELITY AND CASUALTY COMPANY OF NEW YORK

LOOK FOR THIS SEAL ON YOUR POLICIES

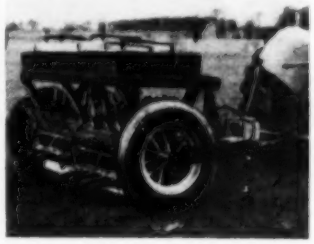
America Fore
INSURANCE GROUP

What's new in farming

[*From page 10*]

8½ mph. Drive wheels are controlled by two levers for easy steering. A movable caster wheel in the rear permits right or left swathing for cutting fallen grain from one side only. A floating cutter bar is easily adjusted for swathing short grain. Center delivery permits cutting close to fences and around wet or green areas. The machine produces a crisscross swath. —*New Ulm Manufacturing Company, New Ulm, Minnesota.*

Grassland conditioner. This machine is said to maintain the good condition of soil under continuous sod. The machine is said to keep soil open so water, air, and plant foods can get down to the root zone. The implement does its work with curved, open spoons. The spoons penetrate the sod, scoop out cores of soil, and then leave the sod through the same opening. The hole left at the surface is only as wide as the spoon.—*West Point Products, West Point, Pennsylvania.*



$500-a-year woodlot

Twenty years of records have been kept on the 20-acre woodlot of S. E. Sanor and Son, Columbiana County, Ohio. The Sanors enjoy working in the woods, as shown by the fact that their lot has been under a good system of management for 60 years.

Each winter the Sanors remove mature and cull trees for saw timber and firewood. They make maple syrup in the spring. Complete records are on hand for the past 17 years of cutting saw timber. Cuts were made in all but three years and the value has averaged $152 per year. Fuel wood used on the farm for the same period has averaged $151 per year in value. Maple syrup has brought a return of $246 for the years syrup was made. This is a total of $549 per year income from a 20-acre woodland since 1930. Not included in this figure are timber, poles, and fence posts.

With the woodlot now an experimental woods under the experiment-station program, detailed figures are available on its operation during the past year. These show that the 178 hours spent on the sugar bush yielded $1.29 per hour. Time spent working in the woods brought the Sanors a return of $1.17 per hour for 170 hours of work. There's no doubt about the Sanor woodlot's being profitable.

HE BROUGHT TELEPHONES TO 250,000 RURAL FAMILIES IN 1951

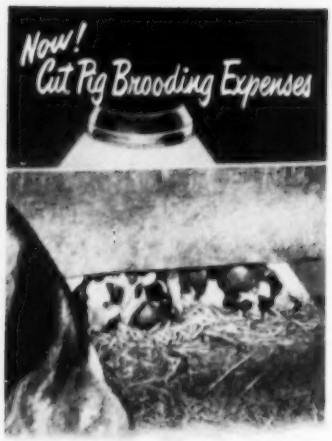
During the past year the Bell System brought telephones to a quarter of a million families in rural areas. That makes a total of a million and three-quarters added since World War II, and we're still adding about two per minute each workday.

But installing telephones is only part of the job. The other equipment put up in 1951 to provide this rural service included more than 100,000 miles of wire and some 300,000 poles.

Service has improved steadily through the years. Today nine out of ten families have lift-the-receiver telephones. Nine out of ten have selective ringing, which means they hear fewer rings for other parties on the line. And we're reducing the number of parties per line.

Plans are set to keep right on building new lines and improving service. We're working fast so that more and more farms will have telephones.

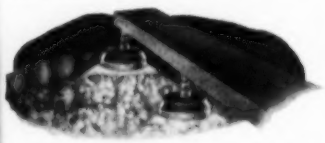
BELL TELEPHONE SYSTEM



. . . AND BOOST PROFITS WITH WESTINGHOUSE INFRARED HEAT LAMPS

It's no longer necessary to spend valuable time or money heating up all the air in the brooding area. Westinghouse Infrared lamps supply every bit of heat you need for protecting little pigs—heat *wherever and whenever you want it!* And, it's this ability to control heat that lets pigs farrow early enough for you to get the highest marketing prices.

All this brooding efficiency is yours at low cost—$1.10 for the standard Westinghouse Infrared lamp or only $2.95 for the hard glass model, and operating costs are only about 10¢ for full 24-hour service. Better see your Westinghouse dealer today about putting this modern, pay-off method to work in time for this year's litters.



WESTINGHOUSE INFRARED HEAT MAKES CHICKS GROW FASTER...FEATHER EARLIER!

Tests have shown that chickens raised in cool rooms with heat provided by infrared lamps have good appetites and feather rapidly. In addition, these lamps eliminate all danger of overheating . . . and are easily adjusted to meet day-to-day weather or growth changes. Chicks stay hardy and vigorous, yet require less of your time and work.

Send For Free Booklet

This valuable Westinghouse booklet shows how putting heat lamps to work on your farm will reduce heating, baking and drying chores . . . help increase farm profits. It's a real guidebook to better farm productivity! For your free copy, write to Westinghouse Electric Corporation, Lamp Division, Bloomfield, N. J.

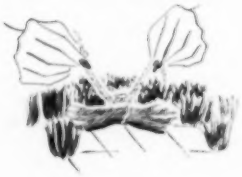
YOU CAN BE SURE...IF IT'S Westinghouse

Make a shaggy rug

By Eva J. Kuhn

1. Mark off the canvas backing of rug into inch squares. Now stitch a 4-inch length of rug yarn through the canvas at each intersection so tie can be formed to secure tufts

2. To make a tuft, wind the rug yarn 12 times around a 2-inch-square piece of cardboard. Then cut yarn along one edge of the cardboard



3. Lay the yarns out full length in one pile. Center pile between one of the 4-inch intersection stitches. Tie intersection stitch securely around the pile of yarn

It's easy to pick up a color from your new wallpaper or add a bright spot in your bedroom with a washable shaggy rug, and it is not difficult nor costly to make one.

Start with a small rug 2½x3 feet to learn how, then try larger ones. For backing, buy a piece of canvas, or use a very heavy feed sack or any other material thick enough to have body, yet easy to stitch through with a large needle. Place the material on top of a table, and mark off the entire surface into inch squares. Leave enough room at each side to turn under a hem. Next cut a piece of stiff cardboard, 2 inches square, to wind the rug yarn around. The cardboard must be strong in order not to bend in the process of winding.

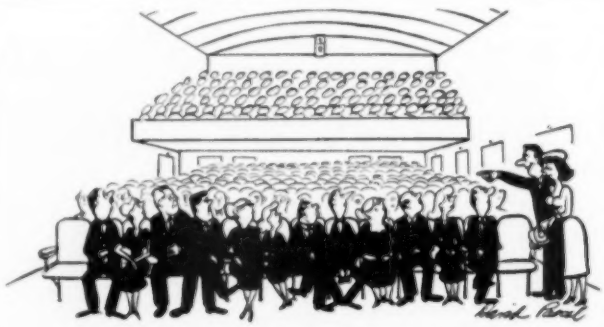
For yarn, use 4-ply cotton carpet warp. This comes in spools of 800 yards and sells for about 69 cents a spool. Other yarn may be used, but if it is not similar in weight, the number of times it is wrapped and the penciled blocks will have to be adjusted accordingly. If you prefer some other yarn, you can make sample tufts until you have arrived at the correct weight for your particular purpose.

Putting the cardboard in your left hand, hold the end of the yarn against the cardboard with your left thumb; and with your right hand, wind it around the cardboard 12 times. Cut all 12 yarns across one end of card. Thread a needle with the same yarn you are using for tufts.

With needle and yarn, stitch in and out at each intersection (where lines cross) on the canvas. Clip yarn at each intersection, leaving enough yarn (about 4-inch length) to tie the tufts. Then center a pile of yarns at each intersection and tie. Repeat this process until you have tied a tuft at each intersection. (See how-to drawings above.) Turn under the hem, and your rug is completed. The approximate cost of this size rug is just $1.80.

The warp comes in many colors, and any size rug may be made, as canvas can be sewed together without danger of seams showing.

SUCCESSFUL FARMING



"Would you all mind moving down one seat?"

Get Hands Like This— As Clean As This!

Lava Soap gives you "HAND-BRUSH ACTION"

—right in its creamy lather!

Contains thousands of tiny "scrubbers" you can't even feel! They clean like a hand brush—in skin creases, knuckles, 'round nails! Get dirt ordinary washups miss! Yet amazingly mild!

You'll like Lava Soap WHENEVER you wash!

See how fast, how easy, the whole *family* washes clean with Lava Soap! Those tiny "scrubbers" in its creamy lather get right down into the creases of your skin, like a fine brush. In only 30 to 50 seconds, even greasy, ground-in grime is gone . . . rust, farm stains, dirt ordinary washups can't *possibly* get! Odors vanish too!

RICH LATHER IN HARD COLD WATER!

Kids love Lava's fast-acting lather. In *no* time . . . after *dirtiest* chores . . . their hands, arms, legs sparkle! *Women* love Lava. Leaves skin smoother, softer! *WHENEVER you wash use thrifty Lava!* Get plenty today! World's only leading soap with "Hand-Brush Action" right in its creamy lather!

Get 3 bars, for bathroom, kitchen, washroom!

LAVA Cleans like a hand brush. Lathers like cream!

HONEST FOOD

DOES MORE FOR KIDS THAN ANY FANCY FADS!

AND HERE IT IS!

NABISCO SHREDDED WHEAT

with MILK . . . America's great body-building breakfast! 100% whole wheat . . . bran and wheat germ included! Delicious . . . hearty . . . nutritious! The original Niagara Falls product.

NATIONAL BISCUIT COMPANY

Don't just say "Shredded Wheat"... say "NABISCO SHREDDED WHEAT"

All around the house®

Here are some tips to help save yourself some time, steps, and work

● After making fudge, I make cocoa by heating milk in the fudge pan. The hardened fudge melts into the milk and gives a tasty flavor to the drink. The pan is ready for washing after the cocoa is finished.—*Miss B. M. C., Minnesota.*

● Rag rugs used in kitchen, bath, or other rooms often fray out at the fringed ends. I remedy this by crocheting one row of cotton yarn around worn sides of the rug. This adds to the attractiveness as well as the life of rag rugs.—*Mrs. C. H., West Virginia.*

● A soapsaver at our house is a thin piece of sponge which is placed in the bottom of the soap dish. When the soap is wet the water goes into the sponge and the soap dries off easily. I wring out the sponge occasionally to keep it free from the excess moisture, too.—*Miss M. W., Wisconsin.*

● When sewing on plastic material, I use transparent tape instead of pins for basting. The tape holds the material in place, allows the sewing-machine needle to sew right through it, and leaves no pinholes to mar the finished product.—*Mrs. E. B., Iowa.*

● When the position of a button on a garment is doubtful, I slip a small hairpin through the button and cloth to hold the button while checking the position, as

shown. If it is not in the right place, I simply pull out the hairpin and relocate the button before sewing it to the garment.—*W. S., New York.*

● I tie a pair of blunt scissors and a pencil to the leg of my child's play table. Thus they are handy come playtime, yet are not available for damaging other things about the house.—*Mrs. R. C., Nebraska.*

● Curtain tiebacks will be the same height on each side of the window if you just pull each shade to the desired height and use it as a guide when pinning.—*Mrs. E. P., Wyoming.*

● My safety-first idea for scissors is to stick the points into a cork before putting the scissors in my sewing box. I use several sizes of corks—small ones for small scissors and larger corks for big cutting shears.—*E. S., Wisconsin.*

● I make pretty hanky folders from greeting cards. I unfold the card until it lies flat and then cut along the center fold, leaving the front and back pages of the

Photograph: Stanley

card attached. Then, using scissors, I cut a 3- or 4-inch slit across the front of the card, following a design on the card or making a scalloped line of my own design. I paste the two pages together along the edges to form a small pocket and slip the hanky in.—*Mrs. C. T., Iowa.*

● I found a way to hang crisscross curtains without using a double rod. I baste the bottom curtain to the top one along the stitching, then run the rod through the heading on the top curtain. Thus, bottom curtain gathers with the top one.—*Mrs. E. L., Arkansas.*

● I use rubber stair treads to cover the shelves of a bookcase that the children use for toy storage. It protects the wood from dents and scratches and cuts down on noise.—*Mrs. M. F., Ohio.*

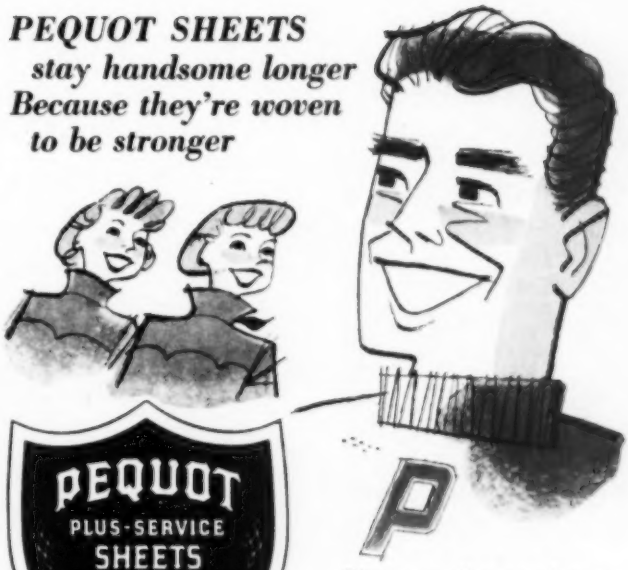
● If I am in a hurry to iron an article that has not been sprinkled, I wring out a turkish towel in hot water and then roll the article in it for a few seconds.—*Miss L. D., Nebraska.*

● For something different and attractive for decorating a child's birthday cake, I use 1-cent suckers with the sticks partly cut off. I place the suckers in holders to take the place of candles. My children think they are a real treat.—*Mrs. L. C., Indiana.*

● I bend the ends of a coat hanger up so as to form long hooks. Then I slip the children's wet mittens on the hooks. I find that the mittens dry quickly this way because the air can circulate inside them.—*Mrs. F. P., Minnesota.*

Successful Farming will pay $5 for each helpful suggestion published. We cannot return unused suggestions.—Editors

PEQUOT SHEETS stay handsome longer Because they're woven to be stronger



That's equally true of every grade of Pequot sheets and pillowcases, and Pequot makes *all four* standard types—each gives you the fullest measure of service and value in its *class*. PLUS-SERVICE is our strongest muslin, better than 144 strong cotton threads to the inch; even, firm weave, no artificial filling and the added *exclusive* feature of *double* tape selvages. Pequot PLUS-SERVICE sheets and pillowcases grow softer with each laundering and they wear and wear—they are your best buy for long life and *true* economy. In white and six decorator pastel colors.

There's a Pequot Quality Sheet..at the price you want to pay

PEQUOT "PREMIUMCOMBED" PERCALE — more than 200 combed threads to the inch, the true percale. Finest, smoothest, most even weave, beautifully finished. Woven, *triple*-tape selvages. In white and six lovely colors.

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Write for *free* booklet, "How to Buy and Care for Sheets". Address: Dept. S, PEQUOT MILLS, SALEM, MASS.

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Orchid Brooch

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You'll be thrilled with this exquisite brooch—delicately hand-painted in glorious orchid tones. Edges daintily outlined in lustrous gold-color finish. Has safety clasp—a feature ordinarily found only in much more expensive pins. It's so lovely—at such an amazing low price you'll want several. Offer limited—*act now!*

HARDENED COTTONSEED OIL, WHOLE MILK, SALT, SODIUM SULFOACETATE (DERIVATIVES OF MONOGLYCERIDES), LECITHIN. 15000 U.S.P. UNITS VITAMIN A PER POUND. SODIUM BENZOATE (0.10%) ADDED AS A PRESERVATIVE. ARTIFICIALLY FLAVORED AND COLORED. 2 OZS. SUPPLY 46% OF THE MINIMUM ADULT DAILY REQUIREMENT OF VITAMIN A.

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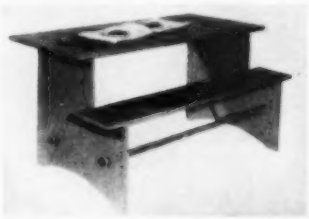
City ..... Zone ..... State .....

(Offer good while limited supplies last)

What's new in homemaking

Desk table fits children 2 to 9 years old. Large top for games, drawing, studying. Sturdily built of ½-inch plywood (unfinished). Won't tip, has rounded corners

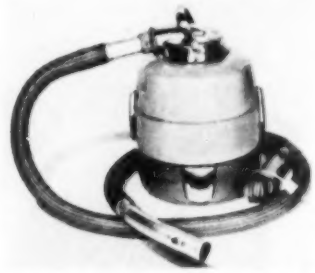


and built-in footrest and seat. Top is 20 inches wide, 40 inches long, 21½ inches high. Express collect, knocked-down, $11.95. Shipping weight, 32 pounds.—*Gilem Products, P. O. Box 129, Lebanon, Indiana.*

Jumbo electric corn popper has 4-quart capacity. Made of aluminum with heatproof glass top and plastic handle and

feet. Also fine for heating soups, vegetables, stews, baby bottles. In department and hardware stores, $9.95.—*Dominion Electric Corporation, 150 Elm St., Mansfield, Ohio.*

Vacuum cleaner with swivel top lets you clean an average-size room without moving the machine. Extension tubes and hose give you a reach of over 8 feet. Has



disposable dirt bag, complete set of attachments. In department, appliance stores, $99.95.—*General Electric Co., Bridgeport, Connecticut.*

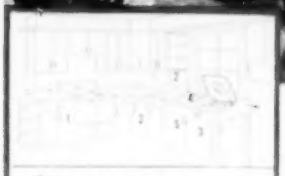
Many-purpose table is at your service for television groups, guest nights, or chair-side convenience. Big enough for coffee and large ash trays, small enough to fit anywhere. It can be easily stored. Also, very usable as a stool, for it's so sturdy even heavyweights can sit on it without a moment's worry. It is made of solid birch and comes in a natural wood

finish. Stands 18 inches high and has a 14-inch triangular top. Wedgie table sold direct for $6.95 which includes the shipping charge.—*Design Exclusives, R.F.D. No. 1, Sandy Hook, Connecticut.*

Roomy magazine rack is Colonial in design. It will hold about 30 magazines so conveniently that you will be able to find the one you want easily. This at-

tractive and convenient rack may be used in a half-dozen different locations. It measures 27 inches high, 23 inches wide, 4¾ inches deep. This is an excellent way to keep magazines tidy and always handy, with no mad search to the bottom of the pile. The rack comes in honey-tone pine or mahogany finish. Shipping weight is about 12 pounds. Express collect, $17.50, from *Field House, North Conway, New Hampshire.*

[*Turn to page 77*



1. Steel construction; easy-gliding drawers, positive-closing doors. Baked-on enamel finish wipes clean easily!

2. Ample, accessible storage (including corner cabinet with shelves that turn, and rolling-door cabinet for spices)!

3. New Youngstown Kitchens Jet-Tower Dishwasher does dishes in less than 10 minutes!

4. One-piece, acid-resisting porcelain-enameled steel sink top with no-splash bowl.

5. Youngstown Kitchens Food Waste Disposer, 3 ways best, fits Electric or Cabinet Sink, abolishes garbage!

See for yourself!

All you want in your dream kitchen IS HERE!

SEE FOR YOURSELF how new beauty, unheard-of work savings, and lasting value are yours in the new Youngstown Kitchens.

Imagine a kitchen of long-lasting STEEL; baked-on enamel finishes that wipe clean easily; doors that won't buckle, drawers that won't stick.

Imagine a kitchen that does your dishes the exclusive Jet-Tower way that no man, woman, or other machine can equal . . . a kitchen that eliminates garbage forever . . . creates more accessible storage than you believed possible.

Imagine just exactly the kitchen *you* want in sturdy steel, built to last a housetime—then ask to see it for yourself.

Let your factory-trained Youngstown Kitchen dealer show you *your* dream kitchen in perfect miniature, show you how to save on installation and how easy it is to finance. If building, specify a Youngstown Kitchen. You'll *save!*

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Youngstown Kitchens are sold throughout the World

Youngstown Kitchens

Call Western Union, Operator 25, and without charge get the name of a nearby dealer

See for yourself! Youngstown Kitchens Jet-Tower Dishwasher, with 58 swirling, booster-heated jets, makes all other methods old-fashioned. Shears under dirt, gets dishes hygienically clean in less than ten minutes . . . washed and double-rinsed in piping-hot, booster-heated water, hotter than your hands can stand.

No more garbage! Youngstown Kitchens Food Waste Disposer shreds waste down the drain. Nonstop feeding, double-action shredding, self-cleaning action.

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Dept. SF-152, Warren, Ohio

Send 24-page planning and decorating idea book. I enclose 10c for mailing. (No stamps, please.) I plan to build ☐ I plan to remodel ☐ I am interested in Dishwashers ☐ Food Waste Disposers ☐ Kitchens ☐

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OF ALL THE FOLKS WHO DO THEIR WASH...

We wear the cleanest clothes in town

...we swear by TIDE!

Tide GETS CLOTHES CLEANER THAN ANY SOAP!

TIDE not only washes clothes cleaner— but whiter, too, in hardest water!

CLEANER CLOTHES! When you rinse out a Tide wash, you've got the *cleanest* clothes in town . . . cleaner clothes than any other woman will get with *any* soap of *any* kind. And here's why - Tide not only gets out the ordinary dirt, but *removes dulling soap film*, as well!

WHITER, TOO! Yes, tests *prove* Tide gets clothes cleaner and *whiter* than any soap in *hardest* water. What's more, after just one Tide wash, soap-dulled colors actually come *brighter!* Millions of you women have proved these Tide miracles. You've seen the proof in your husband's cleaner, whiter shirts . . . in your own bright wash prints.

NEW MILDNESS FOR HANDS! Tide is *kind* to your hands—now milder than ever before. Tough on dirt—but easy on your hands—that's Tide! Get Tide today—for the cleanest wash in town!

P.S. PREFER TO SKIP RINSING?

With Tide you can skip the rinsing, and save all that time and work. Just wash, wring out, hang up. Tide will give you the cleanest possible no-rinse wash!

ALWAYS BUY TWO... ONE FOR LAUNDRY... ONE FOR DISHES!

It's open house at the Conzemiuses' at the drop of a hat. Then the kitchen is headquarters and hilarity is king. Mother and Dad Conzemius believe a "togetherness" of friends and fun at home builds good personalities and happy memories

What's your family like?

By Margaret Speers

Editors' note: As this New Year dawns, it is a time to re-evaluate family life. What does yours stand for? Are you really together, building happy memories that will sustain you come what may? The Conzemiuses (pronounced Con-see-me-us) are a family who measure up. This is their story.

"Daddy," Rosemary sobbed, "how can you be so mean?"

The hurt was bad enough, but to have your own daddy say, "That's just fine!" was too much! Sobs shook her little body as the tears of her defeat spilled down her cheeks.

Rosemary was 10 and she had won, not a blue ribbon, but a white one—the last in a line of ribbons she could have won with the white butter cake she exhibited at the county fair. The hot, quiet August day suddenly seemed to stifle her very life. A nervous little hand crumpled the white ribbon in her dress pocket, and she completely lost the battle against the big, choking sobs.

"Rosemary," she heard her father say, "I'm glad you didn't win. It wouldn't have been good for you to feel that you had done your best the first time. You must know what it is to lose before winning means much!"

She cried a long time that night, but it was a lesson in life Rosemary was never to forget—and one she has passed along to her brothers and sisters. It was a lesson that inspired her to work harder at her 4-H Club food projects each year. Eight years after the lesson she reached the top—national recognition in food preparation at the famous National 4-H Club Congress.

It's the way George and Marguerite Conzemius have reared their five children—by taking advantage of every opportunity to teach them modesty and humility, backed with a calm, sure belief in themselves and an impregnable faith in the rewards of good works.

More about this remarkable family ⟶

What's your family like?

[*From page 33*]

Hog raising at the Conzemiuses' is a family enterprise. Rita gives Dad, John (center), and George, Jr., a pointer on training a Poland China for show. Rita is family's best trainer—a title her brothers have been trying to cop, so far, unsuccessfully

When George and Marguerite moved into a kerosene-lighted, wood-heated farm home in Dakota County, Minnesota, in 1929, they vowed that even if they had few of the material things, they were going to enjoy life and the many wonderful things in it that didn't cost a cent. They decided, too, that when the children came, the children always would be *counted in*. Made to feel an important part of home and farm.

That's why, at a mere 10 years, Rosemary could bake a cake that was a challenge to her mother's. And Jane, when in grade school, was such an apt little seamstress she made dresses for herself and her sisters. John, at 6, knew exactly how the pig rations should be mixed.

Each Conzemius youngster (Rosemary, Jane, Rita, John, and George, Jr.) had his "project" almost as soon as he could walk. To anyone else they may have been chores, but at the Conzemiuses' they were "projects," and each carried a challenge—how to do it better? or quicker? who could get done first?

It's one of the reasons the Conzemius children grew up a hundred percent in love with farming. The Conzemius farming operation makes a story in itself—how they cooperate with the Minnesota University Extension Service in developing new farming practices; how they build their purebred Poland China herd. Their farm is as good as the best in the country, and always improving.

But this isn't a story of farming so much as it is of how these people think, their philosophy. They believe that making a living is important, but that *making happy lives is more important*.

Soon after he began the venture of farming on his own, George Conzemius saw that a 4-H Club was something his children needed. He didn't want them developing into self-centered, narrow-minded individuals. He and Marguerite wanted children with a broad, tolerant outlook. That's why Dad Conzemius organized the first 4-H Club in his township and why Mother Conzemius has carried on as an adult leader and counselor all these years.

Their children and many others in the community have benefited immeasurably from the club. Through it, they have broadened their concepts of responsibility. They have come to know boys and girls throughout their county, state, and nation. And they have developed skills that give them a security which comes no other way.

John, for instance, is on the way to becoming a top livestock man. He has been a 4-H member for eight years, and has developed what his [*Turn to page 62*

Checking machinery regularly and making repairs before faulty parts cause a breakdown are part of good farming program Dad practices and teaches his boys. Machinery is housed indoors, kept painted

On Conzemius farm, one has the feeling that the work is fun, too. It is done in a spirit of one for all, all for one — and grins come easy. John and George, Jr., take feed grinding on a frosty day in stride

John feeding one of his new mothers. He and his dad are raising Poland China pigs on a 50-50 basis. Conzemiuses share responsibilities *and profits.* Children have had own bank accounts since early childhood

It's a real friendly pillow fight with Jane backed into the corner, but ready to tender another wallop; George, Jr., on his knees, but willing; Rita awaiting an opening; and John — well, he's down temporarily

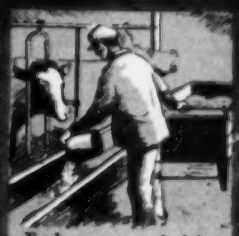
Photographs: Photography, Inc.

When it comes to fudge, George, Jr., is king! His sisters (all good cooks) admit it. He has outshone all of them for years in this culinary art, has won several fudge-making championships at county fairs

The Conzemius cheering section at a Hastings football game. The whoopala was for John, Hastings center. Standing is Rita (almost hiding her mother) with sisters Jane and Rosemary, left; Dad, right

This will

Inspect animals for trouble signs. Quick treatment will give you jump on diseases



Feed cows on schedule; don't make abrupt ration changes. Avoid moldy feed

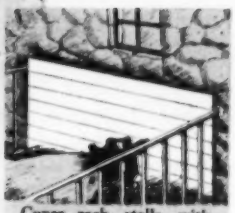
It's generally conceded that cattle are subject to more ailments during the winter than during any other season. There are several good reasons for this, and owners are justified in expecting additional trouble at this time of year. However, most of it can be avoided, as much cattle sickness is due to carelessness and poor management. Here are a few examples of what I mean:

Prevention often is merely a matter of cleaning and disinfecting the premises before animals are brought onto the farm. A few days ago I saw some yearlings running together—all badly infected with ringworm. As a contagious disease was involved, it wasn't surprising to find they all were affected.

Tracking down the source of the trouble, I found that a bunch of calves kept in the same pen the preceding winter had been infected with ringworm. Evidently the disease carried over in the unused and improperly cleaned pen during the summer. That happens regularly, but troubles can start in other ways, too.

Not long ago I saw a sick cow which had her owner worried. He suspected milk fever when she went off feed the day after freshening in a well-bedded box stall. Instead, the trouble turned out to be pneumonia caused by a draft from a broken window. At various times I have seen calves come down with pneumonia because their pens were located next to doors. Similar trouble can also be traced back to hay chutes left unclosed overnight. I recall one whole herd which was sickened when a big door was left open on a cold, windy day. Cattle can stand *cold* air, but not drafts.

As a matter of fact, warm air generally causes trouble in barns. Warm air is likely to be damp. If so, it is hard on cattle, as it encourages pneumonia. This is particularly true in calf barns. On one farm, the death rate among calves was cut to almost nothing by installation of a thermostat-controlled ventilating fan. This provided automatic temperature control, [*Turn to page 80*



Cover rock walls with boards, especially in calf pens. Keep floor bedded

Fix broken windows. Cows can stand cold air, but not in the form of drafts

save you a cow

By J. W. Bailey
Wisconsin Veterinarian

Photograph, Pease; drawings, Hiser

Self-feed salt, minerals to assure right amount—trace minerals in deficient areas

A constant supply of water helps keep stock healthy. Use heater in outside tanks

Use thermostat-controlled fan to bring in fresh air, remove damp air from barn

Segregate outside stock for 30 days to prevent spread of disease if they're infected

Remove high doorsills. Udders are injured when cows enter or leave the barn

Provide daily exercise—it helps prevent digestive and breeding trouble, sore feet

Use ample bedding to keep cow's udder off floor. Cold floors often cause mastitis

Build wide stalls to prevent crowding. Narrow stalls let adjacent cows step on udder

Provide stalls of the proper length. Short stalls allow udder to drape over gutter edge

Slippery floors often cause falls. Use coarse limestone, sand to give cow footing

There's a reason if housework makes you tired *and a cure*

By Mary Rouse

Data from Foods and Nutrition Department, College of Saint Teresa

Does run-of-the-mill housework make you tired? It shouldn't. Each evening, are you irritable? Exhausted? You shouldn't be. If you are, these may be the reasons and these remedies may be the cure

REASON 1: Food—not enough of it, and/or not the right kind

REMEDY: More food, or more of the *right kind*. Food is your chief source of energy—and pretty sound insurance for a good disposition. Improper eating is a fast ticket to a run-down, tired body.

Begin your day *with a big breakfast*—it's the most important of all meals. For it, you should have fruit; a cooked or ready-to-eat cereal; at least one egg with bacon or ham; toast, bread, or rolls (or French toast, pancakes, or waffles); butter or fortified margarine, and a beverage (for the children, milk, please).

When you work hard all day, it's best to have your heartiest meal at noon. Your menfolk who work outdoors all day need it then, and so do you. For it, have nothing less than the following: Meat, fish, or fowl; potatoes and one other vegetable like carrots, peas, asparagus; a salad—preferably raw fruits or vegetables or a combination of both; bread or rolls with butter or margarine; a simple, not-too-rich dessert, and milk (adults should have two glasses a day, children four).

The evening meal may be somewhat lighter than the noon meal. For it: Soup, and/or eggs, cheese, or meat in some form; a vegetable (preferably green, leafy); fruit or sauce; bread and butter or margarine, and milk plus other beverage.

REASON 2: Worry and hurry

REMEDY: Relax. This is particularly true during mealtime. Make it a point to *forget* the work that's waiting. Sit down with the attitude of enjoying every single bite. Don't push yourself to get a certain job done in a short time—sometimes the pressure of hurrying is more tiring than the work itself. Occasionally sing or whistle while you work—it has a psychological effect that actually relaxes you, makes you feel better.

REASON 3: Tight, uncomfortable clothing

REMEDY: It's obvious—wear comfortable clothes. Don't punish yourself with a tight girdle, or run-down shoes, or last year's dress that's too tight to wear for good. Wear attractive clothes that allow you to move freely. See that shoulder straps stay up, that

seams don't bind, that snaps and buttons stay closed. As for shoes, wear ones with heels that give you a solid footing.

REASON 4: Poor ventilation

REMEDY: Let plenty of fresh air in from the outdoors. Fatigue and sleepiness descend when your muscles require more oxygen than your red blood cells furnish, and your red blood cells won't be able to furnish enough oxygen unless you breathe plenty of fresh air. So ventilate your kitchen, laundry, and other work areas. A ventilating fan in your kitchen will pay for itself in increased energy and pleasure. Keep room temperature between 68 and 72, humidity between 40 and 60 percent. Overmoist air is a literal "wet blanket" that will smother vitality.

REASON 5: Inadequate light

REMEDY: If you don't already have them, install lights *above* your sink and *under* your cabinets. These lights should be in addition to an over-all kitchen and workroom ceiling light. Cover all bare bulbs with shades or fixtures that will cut down glare. Eye fatigue is a big cause of general tiredness, so plenty of light is most important in banishing that tired feeling.

REASON 6: Drab, monotonous surroundings

REMEDY: Colorful surroundings, that impart cheerfulness and pleasantness. If you have a basement laundry that's dingy and dark, small wonder that you hate washday. Paint it a sunny yellow, hang up a plaque or plant or two, and see how much less woesome is your washday. Brighten your kitchen with gay color and cheerful house plants, and you'll find that your kitchen duty is much more pleasant. Paint the insides of cleaning closets, cupboards, basement and hall stairs with bright colors. Psychologists tell us that color sets the stage for our moods. Try it!

REASON 7: Poor work habits

REMEDY: A few simple practices will forestall fatigue. Set aside rest periods during the day—give yourself an old-fashioned, country-school recess midmorning and midafternoon. Sit down and just listen to the radio, read a short poem, or lie back and just close your eyes. Also, plan your work so you do the heaviest part of it in the morning—when you have the most energy. Take an honest-to-goodness nap when you need it. Take your rest periods when you feel tiredness just coming on—*don't wait for tiredness to get you down* before doing something about it.

REASON 8: Boredom—the same old thing day after day

REMEDY: Try something new, change your work habits, plan interludes of pleasure. This involves occasionally changing your work schedule. Some week, iron on Wednesday instead of Tuesday; or arrange to do your patching and darning with a neighbor friend. Occasionally, stop your work abruptly and make a telephone call to the friend you've been thinking about calling. Or drop a job flat, and on the spur of the moment, hurry out to pick flowers, thumb through a magazine, or have a cup of tea. Spread the heavy work through the week; don't try to do *all* your heaviest jobs in one day.

REASON 9: Too-much and too-long standing

REMEDY: Do whatever work you can sitting down—ironing, mending, peeling foods, sorting clothes, washing dishes. Postpone the easy, but time-consuming, jobs like mending, darning, and sewing on buttons for evening when you can visit with your family and work at the same time. Scientists have found that good conversation and a laugh or two can speed tedious tasks.

REASON 10: Lack of goals—no plan for improvement

REMEDY: Yes, goals—even for housework—make it a challenge, and, thus, more interesting. And where there is interest, fatigue is likely to take a back seat. Begin now to study your jobs as you do them, trying to see where and how you can do them more easily and more quickly. Look for ways to save steps, to rearrange equipment and furniture to make it more convenient. Change the furniture sometime *just for the sake of change*. Think of ways to make your home more beautiful; try to do little things from day to day to please your family. Where pleasure and beauty are goals, achieving them brings happiness that outweighs tiredness. END

New pasture from old

Here's how to double and triple the yields from farming's most neglected acres. You can use all or part of this concise pasture-renovation plan

By Lou Childers

Ask yourself this: "Could my livestock use more pasture?" If the answer is yes, why not renovate your permanent pasture? It not only steps up total grass output for 4 years or more, but you'll have pasture earlier in the spring *and* during the hot months when bluegrass is dormant.

You can start this winter. Follow the steps in the photos on the opposite page. Spread lime, and manure when the weather permits. You also may want to get the soil tested. Have these things done so that as soon as the frost goes out in the spring, you can rip up the old sod. Use either a weighted disc or a plow—but be sure to kill most of the grass or your new pasture is doomed before it is seeded.

Apply fertilizer before the seedbed is all prepared. Do so either according to your soil tests or at one of the following general rates: 500 pounds of 0-12-12, or 300 pounds of 0-20-20 per acre. Discing once or twice and harrowing will work this fertilizer into the soil. For your final seedbed, if possible, firm up with a cultipacker. To take advantage of spring moisture, seed as soon as you have the seedbed ready.

The right seed mixture. You will, of course, want to use the pasture mixture recommended for your locality and your type of soil. A popular mixture over the Cornbelt is: alfalfa, 7 pounds per acre; red clover 3, bromegrass 5, and Ladino clover, 1 pound. Another which has taken hold in the eastern and southern sections of the Cornbelt is: orchard grass 6 pounds, alfalfa 7, red clover 3, and 1 pound of Ladino.

You can mix the grass seed with the fertilizer and put them on together. The most popular method, however, is to seed the grasses mixed with small grain, which is seeded shallow and at a low rate as a companion or nurse crop. If the companion crop is planted at normal depth, it is too deep for the grasses. Six pecks is the usual rate of seeding small grain when renovating. You may even want to reduce the grain to 4 pecks.

Seed legumes as you would for hay. If you sow a nurse crop, be sure to remove it before it begins crowding young seedlings of grasses and clovers. A good trick here is to graze off the oats or whatever grain you've used when it gets 6 to 10 inches tall. You can also mow it. If you do graze it off, take the livestock out as soon as they have the small grain eaten down.

Because a renovated pasture is out of production during the spring months, the first year you will need to plan for other grazing. Your new pasture should be going strong by mid-June to mid-July, depending on where you live. This is when the "summer slump" usually hits and when good pasture is most needed.

While spring is a good time to start the renovation job, fall is even better; that is, to the extent of getting the ground disced or plowed. Winter breaks up the old sod and mellows the seedbed. Also, you can get in to plant earlier.

How often should you renovate? It depends on how soon "grass" production drops off; 4 or 5 years is average. If you top-dress with phosphate and potash every 2 or 3 years and are careful not to overgraze, the pasture will hold longer.

Do what you can—it pays. We have outlined the steps of a *perfect* pasture-renovation job. Conditions may prevent your carrying out *all* the steps. But look at this—Prof. D. R. Dodd of the Ohio Agricultural Experiment Station queried a number of fellow agronomists as to just how much each part of renovation had to do with the increased yield. The average of their answers gave lime and fertilizer credit for 51 percent of the improvement; new plants, 31 percent, and working the soil, 18 percent. Here is a clue to what you can expect from liming and fertilizing even though you don't reseed.

Liming, a coating of manure, and a good discing in the fall will double grazing on lots of pastures. In fact—almost anything you do to a permanent pasture will improve it.

Short of pasture? Look what you can do with what now may be thin bluegrass

1 Soil compacted, fertility sapped, weed-choked, lacking a productive mixture of pasture plants—this familiar-looking permanent pasture is in line for renovation in spring or fall. Best to break in the fall, and let winter freezes and thaws help build the seedbed

2 After liming and manuring, the object is to get in and rip up all the old sod. Failure in this important step means the new planting will be crowded out before it is established. A disc-type implement, well weighted, can be used. Some like to plow. Take your pick

3 Surface is rough after breaking up sod. If done in fall, leave it this way to catch snow and slow soil losses. Fertilizer should be spread before the seedbed is made ready so that it can be well mixed into the soil. More seed lives if field is rolled ahead of planting

4 A heavy growth of palatable forage marks the renovated field at left; at the right, the unimproved pasture is beginning to show the pallor of midsummer dormancy. A mixture helps to even out pasturage, meaning more meat, milk—less barn feeding

5 Cow's-eye view of a good renovation job. Note plenty of grasses along with the legume to help reduce bloat. A mixture is more palatable, also. New pastures should always be grazed lightly until they are well established. Rains at the right time help here

6 Rotation grazing will stretch out summer pasture, and it will be higher quality, too. The best practice is to put enough stock on to eat it down quickly, then clip and let it grow back before turning in again. You can hold new pasture longer by top-dressing yearly

In a little girl's room, a red quilted coverlet and frilly pillow shams stand out against white, crisp curtains, dust ruffle, and furniture. Dainty red roses in the wallpaper repeat the same bright red

In this boy's room, the masculine look is achieved with rough brick, birch paneling, tailored bedspread and rug. The cotton upholstery fabric in a rich blue-green color is a durable, practical choice for fitted spread

In this master bedroom, bright blue spreads over fully gathered dust ruffles of blue-and-white over-all print, stand out against bright green carpet and clean-looking plaid wallpaper. Repeat of blue in picture mats and on lamp shade is an excellent way to unify furniture grouping

Photographs: Suter, Hedrich-Blessing, Pease

Colonial bedroom, for the teen-age girl, boasts a beruffled bedspread with an appealing, full circular skirt. Quilted chintz is perfect for spreads that will get hard wear, for it is wrinkle-resistant, collects little dust, washes easily, is always crisp-looking, and comes in many attractive colors

Durable and practical chintz in a dainty print sets the pace for this friendly Early American bedroom. The dark green walls are a wise choice to set off the delicate colors of the print bedspread and warm coloring of maple furniture. Curtains are made of sheer organdy

Colorful spreads for colorful bedrooms

By Kay Scott Jones

There's no question about the importance of having attractive, cheerful, yet restful bedrooms. Since you begin and end almost every day of your life in your bedroom, its atmosphere certainly has an influence on how well you sleep and how happily you awake. A cheerful room is like sunshine pouring in a window on a fresh spring morning. A drab, dull room is as depressing as a gloomy, damp day.

If your bedrooms are lacking in color and personality, bring them to life with a new decorating scheme before spring rolls around again. Start your planning with a new bedspread.

Many people think of bedspreads as "necessary evils"—a mere covering for sheets and wrinkled pillow slips. Too many times, the work-weary homemaker shops for the most obvious in the "easy-to-wash, cheap, wrinkle-resistant" class and comes up with a result that is just as unimaginative and unattractive as the description sounds.

Don't be misled into thinking that the practical spread can't be an attractive spread. There is available, at reasonable prices, an endless choice of ready-made spreads and fabrics by the yard. Look at all the quilted chintz spreads, for example, in both plain colors and bright prints, that need only an occasional shaking out of doors to keep them fresh and crisp-looking for ages. The chintz is so tightly woven it absorbs little dust, and the quilting makes it practically wrinkleproof.

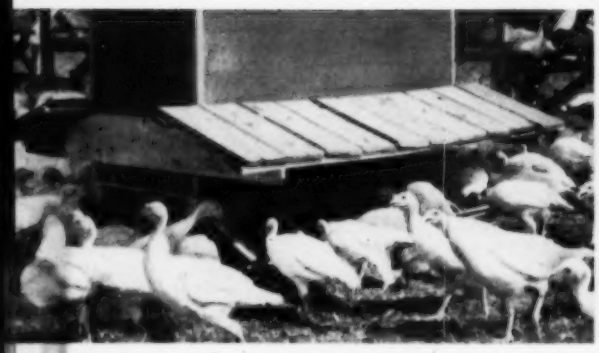
Then there are the equally attractive styles, made from fine seersucker, that wash like an oversized handkerchief and require little, if any, ironing. Some of these have needletuft designs added and contrasting ruffles edging the sides.

And there are the many inexpensive throw spreads of textured cotton. Some of the new designs woven into these spreads are very good-looking. There are florals and dainty checks for the Traditional room, bold geometric patterns for the Modern room, and bright stripes, plaids, and patterns just made for the youngsters' hangout.

If the ready-mades don't answer your particular needs, make your own spreads. Look to denims, corduroy, upholstery fabrics, and lightweight woolens for unusual colors and textures, as well as wearability. Make them up in simple throw styles and depend on the texture and color of the fabric itself to make the spreads beautiful. Or go fancy with a circular skirt, dust ruffles, or a tiered-skirt effect. Let the style of the spread you make or select set the pace for the rest of the room's decoration, and you will be well on the way to a lovely bedroom.

More on page 108

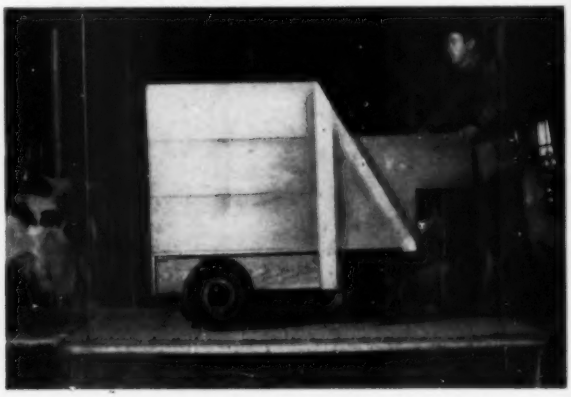
TIME SAVERS



Wooden roof on turkey feeder is raised as the turkeys grow and need more headroom while feeding. The roof was built of scrap lumber by Robert Ward, Mount Pleasant, Iowa. It helps prevent feed waste

Feedboxes for calves on the farm of Loren Bruns, Loveland, Colorado, are made of sheet metal and angle iron. The feedboxes are handy to fill and can be lifted out of the calf pen for quick and easy cleaning

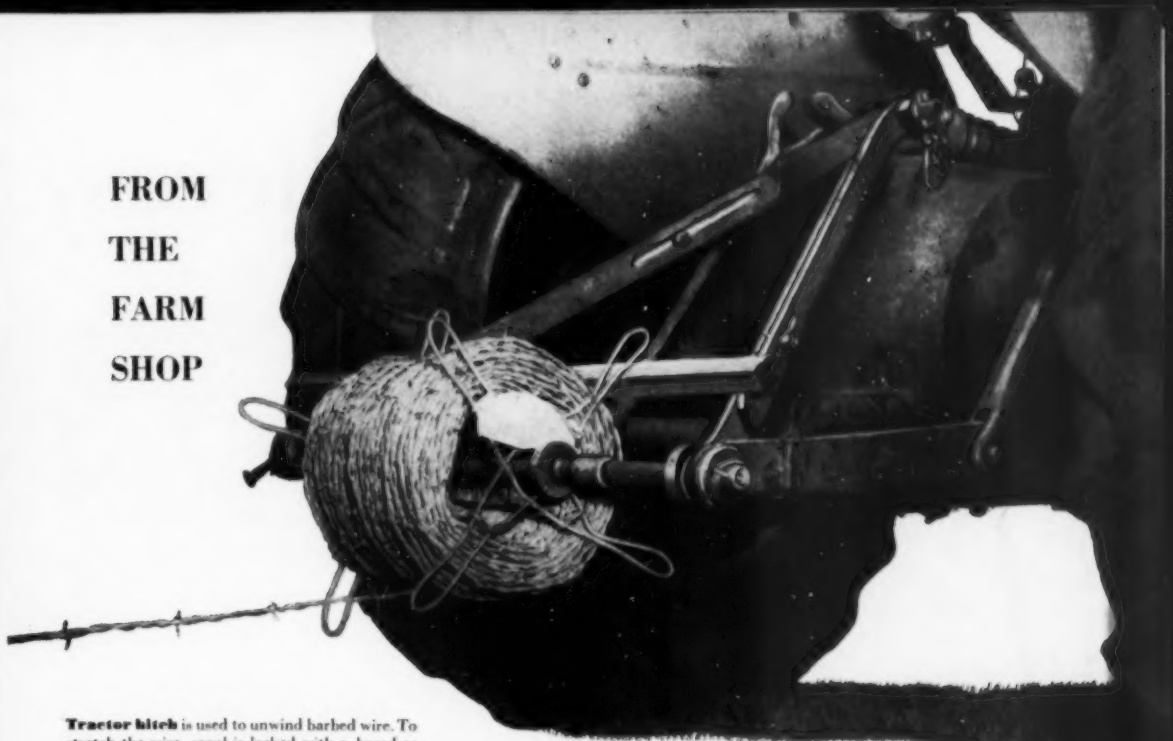
Wagon hitch for combining is mounted on tractor. Hitch is attached to the drawbar and front of the tractor frame. Built by Richard Heath, West Liberty, Iowa



Cow feeding is easier with this bridge across the middle aisle of the cow barn. The bridge is on the same level as the feeding surface and can be raised to the barn ceiling. Built by W. D. Sharrett, Bristow, Virginia

Lightweight seeder cart is mounted on hydraulic unit of tractor. Box is filled by dropping it to ground, raised with hydraulic lift. When endgate seeder is removed, the box is used for hauling. Built by Lyle Bird of Mount Pleasant, Iowa

FROM THE FARM SHOP

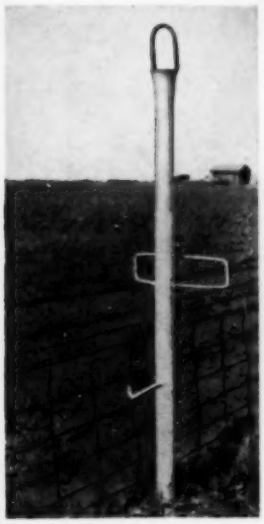


Tractor hitch is used to unwind barbed wire. To stretch the wire, spool is locked with a board as shown above. Built by R. Dietsch, Swanton, Ohio

Photographs: Wettach, McVicker, Andrews, Graves, Costello, Gilman

Clevis bolted to skids prevents breakage. Built by R. Creelman, Oakville, Iowa

Auger in bottom of wagon delivers feed directly to bin or bunk. It was built by Howard McCleery, Washington, Iowa



Fence stile was made from old well casing. Pieces of rod were welded onto the pipe

Sump in floor of farm shop catches water, dirt, grease from implements. Sump material flows out of 4-inch tile drain. Planks cover pit. Built by C. Cowen, Packwood, Iowa

Openings in doors of calf pens provide easy feeding. Small mangers are attached to door of each pen. Built by W. Hoellerich, Columbia County, New York

He raises hogs the easy

Scoop shovels see little use on Otto Orschell's hog farm, Wayne County, Indiana. Orschell has replaced them—and all other old-fashioned systems—with streamlined methods, all aimed at less work and more efficient production. Nearly every piece of equipment is portable. It's either on skids, or Orschell can put wheels under it.

Orschell's handiest tool is his manure loader. It's kept busy the year round. He uses it for lifting, moving buildings, loading corn, hauling manure, and even for moving hogs. "Most farmers make use of about half of a manure loader's possibilities," says Orschell.

He sees no need of hauling corn from the field and then back out to the hogs. So he cribs it in the field and lets the hogs go to the corn. He makes giant self-feeders of each field crib by placing a 12'x12' feeding floor in front of the door. Then, he just opens the door and lets the hogs help themselves.

He keeps a reserve supply of corn in a hillside crib which is also unloaded by gravity (see opposite page).

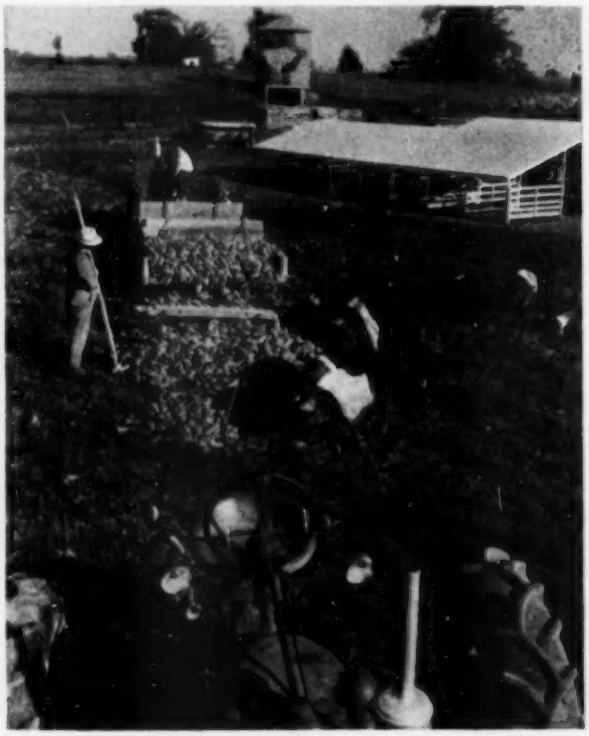
Angle iron is used to build much of his hog equipment. Orschell says it's stronger, lighter, and lower in cost than wood.

Photographs: Pease

Manure scoop is used to lift 40-foot, angle-iron farrowing house to place wheels on axle. Hitch is attached to other end and rests on drawbar. House can easily be moved through gate

Hillside cornerib is unloaded by gravity. Most of the corn in 950-bushel crib ➜ is removed by opening upper door. When corn gets low, a trap door beneath crib is removed. The foundation is reinforced by filling holes in blocks with concrete

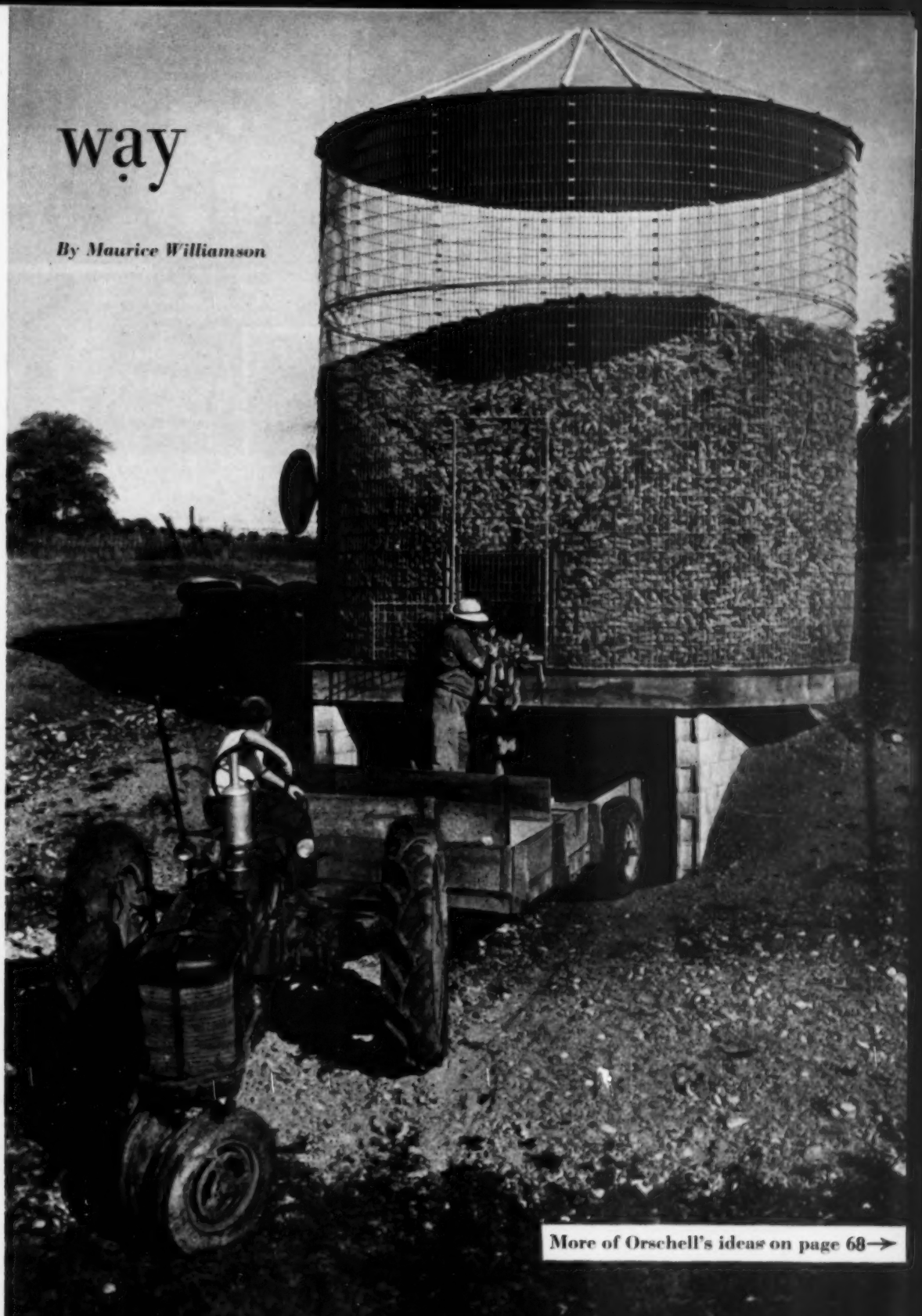
Sows farrowing on pasture are moved to farrowing house in crate built to fit manure scoop. Orschell doubled the manure scoop's load capacity by bolting 1-foot extensions on each side



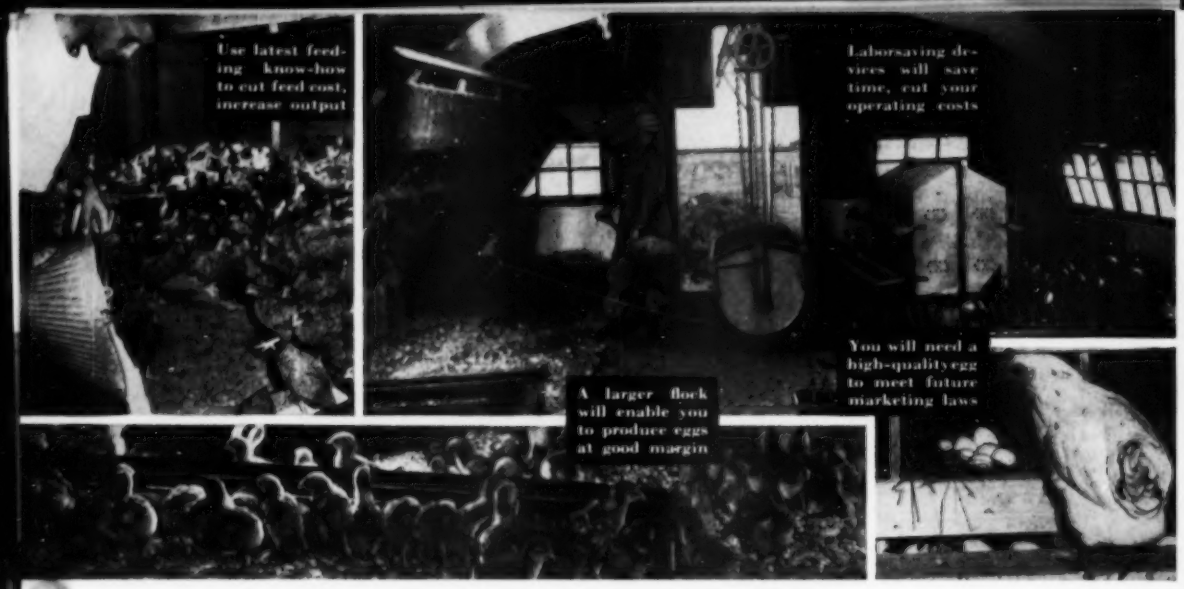
Endgate feeder unloads corn without scooping. Two endgates are used, one in front of wagon, the other in middle. A rope is attached to the endgates with slack between the two. The other end of rope is attached to a post or another tractor

way

By Maurice Williamson



More of Orschell's ideas on page 68→



Your stake in poultry's future

By H. H. Alp
American Farm Bureau Federation

Poultry is no longer the "piggy bank" of the farmer's wife. It has become a major source of income on many farms, and has outgrown its status of a sideline farm operation. And it's fast becoming a highly specialized business, in both meat and eggs. During the past few years, poultrymen have stepped up egg production per hour of labor by about 30 to 40 percent, meat production even more.

Poultry picture is changing. Current trends in poultry and egg production challenge many out-of-date management and marketing ideas. Farmers are asking if this means the end for the small operator, and whether mass production will eliminate the small, individually owned poultry plants. You might also ask two other questions: Will it become a highly financed business; and will future poultry and egg production be limited to certain geographic areas?

This year's prospects look good. The efficient operator can make a go of poultry raising the next few months. I base this statement on the following conclusions:

1. The nation is committed to all-out national production. This means a continuation of full employment, resulting in a reasonably high national income. Poultry and egg producers will get their share of this spendable income, providing they offer a quality product in the right quantity.

2. Increased population, plus the continued high price of red meats, should maintain a profitable price level on both poultry and eggs.

3. While there will be some increase in production costs, there is no reason to think costs will get out of line. The price of poultry feed has gone up steadily and will continue to do so. However, the average sack of poultry feed today contains a lot more feeding value than it did 10 or 15 years ago.

4. Consumers will eat more poultry and eggs in 1952 than in any previous year. This demand results from a year-round supply of quality poultry and eggs, properly processed. Good merchandising will also help.

Prospects for 1952 look good for the poultryman who keeps his unit costs low, his volume high, and his output related to the demand of his processor and distributor.

Fewer small flocks on farms. Farmers have been quick to shift to the type of production which gives them the greatest economic advantage. The little "2x4" poultry enterprise is gradually disappearing. This means some people will be buying rather than raising eggs and poultry in the future.

There still are many small flocks and there will be for some time. However, the number of these flocks will continue to decrease.

New York-dressed poultry (poultry killed and sold with only the feathers removed), which has dominated retail markets in the past, is [*Turn to page 74*

How should I feed grass silage?

By Vernon Schneider

Is this your first year of feeding grass silage? If so, you're not alone. Last spring, many farmers turned to grass silage when seemingly endless rains doomed their first cutting of hay. Now they're facing an array of questions on how to feed it.

Grass-silage feeding possibilities seem to be unlimited. It's being fed to beef cattle, dairy cattle, sheep, and even hogs. Each usage presents a different feeding problem. Part of the feeding data in this article stems from the various state experiment stations. However, a big share of the answers comes from farmers who have fed grass silage—some as long as 15 years.

Can I feed dairy cows entirely on grass silage? If so, how much will they eat?

Probably so. Elmer Zimmerman, Jefferson County, Wisconsin, once placed 2 milk cows on an all-grass-silage ration for 1 week. They ate 106 pounds per day with no drop in production. However, his normal daily feeding consists of all the grass silage and hay the cows will eat. They range from 40 to 60 pounds per day, averaging about 50 pounds. Paul Montavon, De Kalb County, Illinois, also tried an all-grass-silage ration, but found that cows craved some hay, so he gave it to them. His top silage eaters put away 60 pounds per day. His top producers are also his best grass-silage eaters.

What are my chances of feeding some grass silage to my brood sows?

Pretty good. Hogs like something green, and grass silage fills the bill. Elmer Zimmerman feeds the cow-manger sweepings to his brood sows. They go for it, and it has cut grain requirements by about half.

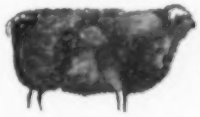
How much grass silage can be included in the ration of a beef animal on feed?

This will vary, depending on the age of the animal. Fred Willrett, De Kalb County, Illinois, finds little use for grass silage in a ration for short-fed cattle. These cattle are bought early in September and fed a heavy grain ration for 60 to 90 days. The feeding period is too short to use any great amount of roughage. However, a limited amount of good-quality grass silage keeps them on feed and sharpens their appetite. His lighter feeders, bought in November, get largely a grass-silage ration through the winter. They're fed 50 to 60 pounds of grass silage per head plus 4 to 5 pounds of grain. Willrett gradually shifts them to a heavier grain ration 60 to 90 days before marketing in March or April.

Drawings: Gifford Hiser

What is the best grass silage-hay-grain combination to feed dairy cows?

A good rule is to feed all the hay and grass silage the cow will eat. Then, feed a grain ration according to production. Paul Montavon feeds 1 pound of an 11.3-percent-protein grain mixture for each 5 pounds of 3.3 milk. Craig Beane, Jefferson County, Wisconsin, has cut grain feeding by $\frac{1}{3}$ since starting to feed grass silage. He has also lowered the protein content of his grain ration from 16 to 13 percent.



Do sheep go for grass silage? If so, how much will a ewe eat? A lamb?

Fred Willrett, lamb and cattle feeder, feeds from 1,200 to 1,800 western lambs each year. He buys in September, sells in November and December. During the fattening period, the lambs eat from $1\frac{3}{4}$ to 2 pounds of grain, about $1\frac{1}{2}$ to 2 pounds of grass silage, and $\frac{1}{2}$ pound of hay per head daily. His 40 head of ewes get mostly grass silage and a sprinkling of hay up until a month before lambing. Then he feeds them $\frac{1}{2}$ pound of grain per head daily.

What effect does grass silage have on fattening condition of beef animals?

There's good evidence that grass-silage-fed cattle tend to lose their hair earlier in the fattening period. Edward Van Bogaert, Kane County, Illinois, found this to be true. "This condition will fool you," says Van Bogaert. "Grass silage gives them an early 'bloom' and, as a result, they're not as fat as you think they are." To overcome this fault, Van Bogaert feeds more corn in the latter part of the fattening period, cutting down on grass silage. [*Turn to page 90*

When there's stew *for supper, its savory fragrance fills the kitchen with an invitation to tasty, good eating*

By Elizabeth Page

On blustery winter days, there's nothing that tastes better than stew—the real old-fashioned kind, full of meat and vegetables and rich gravy. A stew, in fact, is the essence of country cooking—hearty, filling, and downright good.

When making stew, it takes a deft touch with herbs—just enough to point up the flavor of the stew itself. You can add or subtract vegetables according to the family's own taste preference. However, do not add more than two strong-flavored vegetables, or they'll overwhelm the flavor of the meat and milder vegetables. Add vegetables that are near the same thickness so they'll all be tender and cooked through at the same time without getting mushy.

The stew in the photograph at right is Tomato-Herb Stew, a bit unusual in flavor—*and delicious!* Below are recipes for it and a variety of other stews, any one of which may become your family's favorite.

Tomato-Herb Stew

Serves 6

Cut . . . . . **2 pounds beef stew meat** into 1½-inch cubes
Dredge meat in flour.
Brown in hot fat.
Sprinkle with:
1 teaspoon salt
dash of pepper
Add . . . . . **1 clove garlic,** minced
1 teaspoon marjoram
1 teaspoon thyme
1¼ cups (No. 1 can) tomato puree
3 cups water
Stir well; bring to boil.
Turn heat to low; cover and simmer for 3 hours.
Add, 45 minutes before cooking time is up:
5 large carrots, sliced
6 small onions
6 medium potatoes
2 cups (1 package) frozen peas
1 teaspoon salt
Thicken stew with:
4 to **6 tablespoons flour** mixed with
½ cup water
Simmer for a few more minutes.
Serve steaming hot.

Scotch Stew

Serves 6

Brown . . . **2 pounds lamb shank** or **shoulder,** cut in 2-inch cubes, in
1 tablespoon fat
Add . . . . . **4 cups water**
⅓ cup pearl barley
1 medium onion, sliced
2 tablespoons minced parsley
¼ cup minced celery tops
2 teaspoons salt
Cover and cook slowly 1½ hours.
Add . . . . **6 medium potatoes.**
Cook ½ hour longer.

Brunswick Stew

Serves 10 to 12

Cook . . . . . **4- or 5-pound stewing chicken,** until tender
Remove meat from bones.
Add . . . . . **4 cups (2 No. 2 cans) whole kernel corn,** drained
4 cups (2 No. 2 cans) tomatoes, drained
2 cups (No. 2 can) butter beans, drained
2 cups sliced onion
4 teaspoons salt
½ teaspoon pepper
2 cups raw cubed potatoes
1½ cups chopped green pepper
1 tablespoon butter or **margarine**
6 cups chicken broth
Simmer until vegetables are tender.
Blend . . . **¼ cup flour**
½ cup water
Add to stew; cook until thickened.

—*Mrs. V. E. Stahly, Kansas*

[*Turn to page 76*

Drawing: Elmer Jacobs

Photograph: Allen Snook

DOUBLE-DELICIOUS MARBLE CAKE (right) to serve 20 happy people . . . Prepare batter for Swans Down Instant and Swans Down Devil's Food separately, as directed on the packages. Put alternate spoonfuls of light and dark batters into a 13 x 9 x 2-inch pan lined with paper on the bottom. Zigzag a knife through mixture in pan.

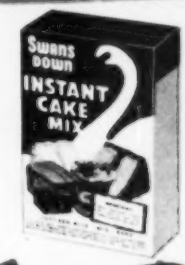
Bake in moderate oven (350°F.) 50 minutes, or until done. Cool. Top with chocolate frosting. Nothing but Swans Down Cake Mixes could bring you such perfection with such ease and speed!

DARK-DELIGHT LAYER CAKE (left) . . . bake Swans Down Devil's Food in layers as directed on package. (Notice how it *holds* chocolate flavor and fragrance through oven heat!) Frothy brown-sugar frosting and walnuts for this beauty.

Bake some heaven in a hurry—

—make it "Swans Down wonderful!"

When a cake's got *everything* . . . tenderness, handsome height, flavor . . . you can bet that cake's made with one of the famous Swans Down Cake Mixes! These are the mixes America's homemakers rave about! You're missing a *treat* if you haven't tried 'em!



Products of General Foods

Swans Down Cake Mixes

The only mixes that give you cakes with glorious Swans Down texture!

SURPRISE LEMON LAYER CAKE (above, right) . . . prepare yellow-cake batter as directed on the Swans Down Instant package. For delicious surprise flavor, mix ¼ cup of chopped Baker's Coconut through batter before baking! Spread with lots of tangy lemon butter frosting. You can be *sure* your cake is perfect when it's made with Swans Down Instant Cake Mix.

VALENTINE PINK 'N' PRETTY CAKE (left) . . . prepare batter for white cake as directed on the package. Bake in two 9-inch heart-shaped layer pans for 20 to 25 minutes in moderate oven (375° F.). Cool. Tint fluffy frosting delicately; spread between layers and over top and sides. Add valentine "lace ruffles" of Baker's Coconut. Lovely to look at—heaven to eat, 'cause it's "Swans Down good"!

Escalloped Turkey
Serves 6

Heat together:
1 10½- or 11-ounce can condensed mushroom soup
¾ cup milk
Add . . . . . **2 cups leftover turkey**
Alternate layers of turkey mixture and **leftover stuffing** in a greased 1½-quart casserole.
Sprinkle **⅓ cup finely grated American cheese** over top
Bake at 350° for 25 minutes.

Savory Meat Turnovers
Serves 6

Use . . . . . **3 cups biscuit mix,** as directed, to make dough
Roll out dough ¼ inch thick on lightly floured board.
Cut in 4-inch squares.
Combine **½ cup milk**
¼ cup catsup
½ teaspoon salt
1 cup ground leftover beef
3 tablespoons lemon juice
1 tablespoon prepared horse-radish
Place 3 tablespoons of meat mixture on each square.
Fold square over to make triangle.
Moisten edges of triangle; press together.
Slash triangles; place on baking sheet.
Bake at 450° for 15 minutes.
—*Mrs. R. X. Smith, South Dakota*

Spanish Stew
Serves 6

Brown . . . **1½ pounds ground beef**
½ cup chopped celery
1 cup chopped onion in
4 tablespoons shortening
Add . . . . **1 cup kidney beans**
1 cup leftover peas, or
1 cup leftover lima beans
1 cup leftover tomatoes
⅛ teaspoon red pepper
⅛ teaspoon paprika
½ teaspoon salt
Simmer 30 to 40 minutes.
Thicken with mixture of
1 tablespoon flour
2 tablespoons water.
—*Mrs. Maynard Mehrkens, Minnesota*

Canned-vegetable dishes

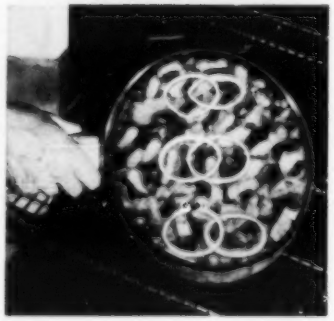
These exciting recipes are reasons why canned vegetables needn't be the same day after day

French Peas
Serves 6

Fry partially done:
4 slices bacon, diced
Add . . . . **1 tablespoon chopped onion**
Cook until onion is tender and golden.
Blend in **1 tablespoon flour**
Add . . . . **1 cup light cream** gradually
Cook until thick, stirring constantly.
Cook . . . . **1 cup (6-ounce can) mushrooms,** chopped, in
2 tablespoons butter or **margarine** for 5 minutes
Add mushrooms and
2 cups (No. 2 can) peas, drained, to above cream mixture
Season with:
½ teaspoon salt
dash of pepper
Heat through and serve in **toast cups.**
—*Mrs. L. G. Tanke, Iowa*

Snappy Green Beans
Serves 4

Fry . . . . . **2 slices bacon,** diced
Add . . . . **½ cup chopped onion**
¼ cup chopped green pepper
Cook until tender.
Add . . . . **2 cups (No. 2 can) green beans,** drained
½ teaspoon salt
dash of pepper
dash of nutmeg
½ cup light cream
Heat through and serve at once.



Mexican Corn Bake

Serves 6

Combine 2 cups (No. 2 can) creamed corn
1 cup diced, cooked celery
½ cup chopped ripe olives
½ cup chopped pimiento
½ cup corn flakes

Pour into 8-inch square baking dish.

Stir in 2 beaten eggs
1 teaspoon salt
dash of pepper
dash paprika
½ cup milk

Bake at 350° for 65 minutes.

—*Miss Myrtle Odland, Iowa*

Beets With Orange Sauce

Serves 4

Combine ⅓ cup sugar
⅛ teaspoon salt
2 tablespoons cornstarch

Mix well.

Add gradually:
1 cup orange juice
1 tablespoon butter or margarine

Cook in top of double boiler until thick.

Add 2 cups (No. 303 can) diced, canned beets, drained

Heat thoroughly.

—*Mrs. Eunice Swender, Iowa*

Scalloped Tomatoes de Luxe

Serves 6

Brown 2 cups bread cubes in 2 tablespoons fat

Combine 2½ cups (No. 2 can) tomatoes
1 cup diced celery
½ teaspoon salt
dash of pepper

Add bread cubes to tomato mixture.

Pour into greased baking dish.

Top with slices from 1 large onion

Brush onion slices with melted butter or margarine

Bake at 375° for 45 minutes.

Made with leftovers

Economical and tasty ways to use up extras in the refrigerator—and they're even better the second time

Bacon 'n' Ham Stacks

Serves 4

Combine 2 cups ground, leftover ham
1 beaten egg

Shape into 4 patties.

Combine 2 cups mashed sweet potatoes
½ teaspoon salt

Shape into 4 patties.

Cross 2 strips bacon for each stack

Place on crossed bacon strips:
1 pineapple slice
1 sweet-potato patty
1 ham patty

Fold ends of bacon over patties; fasten on top with toothpicks.

Place in shallow baking dish.

Bake uncovered at 350° for 1 hour.

—*Mrs. D. F. Garthwait, Wisconsin*

Chicken Muffins

Makes 30

Brown 2 tablespoons chopped celery
2 tablespoons chopped onion in
¼ cup butter or margarine

Sift together into mixing bowl:
2 cups sifted flour
½ teaspoon salt
4 teaspoons baking powder

Combine 2 beaten eggs
1 cup milk
1 cup leftover, cooked chicken with the celery, onion, and butter

Add chicken mixture to dry ingredients.

Fill greased muffin tins two-thirds full.

Bake at 425° for 15 minutes.

Serve with hot leftover chicken gravy.

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Tanks replace their milk cans

By William Gilman

Good-bye, milk cans! Bulk pickup of milk not only cuts out most of the lifting which goes with dairying, but dairymen who ship their milk in bulk say it cuts down on the bacteria count, too. And there's no quibbling about milk weights and butterfat tests. Both the weights and tests are taken on the farm in the presence of the farmer. The dairyman gets paid for milk in the milkhouse, not the amount which arrives at the plant.

Bryant and Chapman, milk handlers in Hartford, Connecticut, first introduced the idea in the area three years ago. Today, 16 dairy farms in Columbia and Dutchess counties, New York, and Litchfield County, Connecticut, are included on their route.

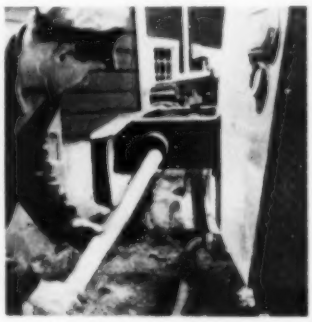
Here's what Walter Jensen, dairyman in Columbia County, New York, has to say about bulk handling of milk: "I can't express how pleased we are with bulk pickup. The milk-can deal cost me two hours a day of one man's time—filling milk cans, putting them in the cooler, loading them into a truck, and then hauling them to a pickup point and back." Another dairyman on the route, Grant Langdon, adds, "If I had to go back to the old way of handling milk, I wouldn't."

A good year-round road and plenty of turn-around space near the milkhouse are musts in this system of handling milk. Also, an emergency gasoline engine is needed to do the pumping in case of power failure.

Unlike similar operations in California, where herds number up to 1,000 animals, this Eastern setup is aimed at medium-to-large herds, producing between 10 and 40 cans daily. The following pictures show how the milk is handled in the milkhouse and loaded into the tank truck.

1. Milk is loaded into this 364-can tank truck at the farm. Here, the tank truck is about to drain the stainless-steel holding tank on Grant Langdon's 65-milker farm. Holding tanks need not be large because the milk is picked up daily at the farm

Photographs: Eleanor Gilman



2. Driver Eugene Twining, also a licensed weigher and sampler, gets the pipe line ready. It is a length of brewer's hose, sterilized before each run and rinsed after each stop. The milk-receiving end is capped and is carried in an enclosed, sanitary tube

3. Through an opening in the milkhouse wall, Twining slips the brewery hose, and couples it to the holding tank. After the holding tank is emptied, the line is rinsed and the hose capped. It takes 10 minutes to empty 30-can tank. *More on page 58*

handles MORE JOBS easier

MASSEY-HARRIS TRACTOR WITH MOUNTED TOOLS

YOU can hook on or change Massey-Harris rear-mounted tools in less than a minute. Think what that means in time saved getting to the field.

Once in the field, you'll see quickly the advantage of Massey-Harris' extra power, extra traction. You plow deeper furrows . . . angle your discs for a deeper bite . . . work in a higher gear . . . or hook on tools in tandem to do two jobs at once.

See how simple it is to raise or lower your tools by a flick of the Depth-O-Matic lever. The two-way Depth-O-Matic hydraulic system powers your tools *into* the ground as well as out — adjusts their working depth . . . without getting off the tractor seat. With Depth-O-Matic, you can operate a front end loader and rear-mounted equipment at the same time . . . raise or lower front-mounted cultivator gangs independently.

Massey-Harris mounted, semi-mounted and drawn equipment team up with Massey-Harris tractors for top performance. Years ahead in design, Massey-Harris mounted tools attach quicker, adjust easier, last longer and do better work under a wide variety of conditions.

Look over the complete line at your nearest Massey-Harris dealer. He will be glad to arrange for a free demonstration on your own farm to see how Massey-Harris performs under *your* conditions. For free tractor catalog by mail, use the handy coupon below.

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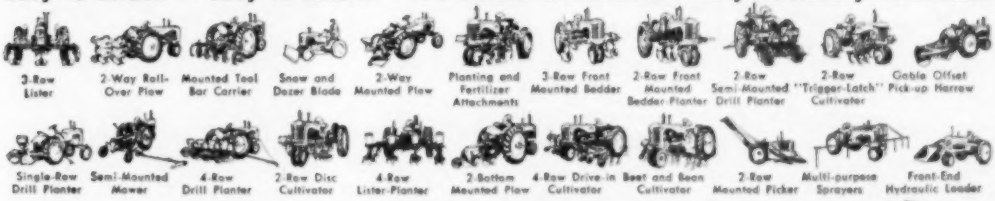

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We use space heaters in our house. And I tell you nothing can match the economy and the steady warmth of bituminous coal with plenty of extra heat for the coldest weather—our rooms are always at a nice, even comfortable temperature! But if we ever decide to put in central heat—you can be sure it'll be a coal system. None of those "all-on or all-off" fuels for me!

And here's something else that anyone who heats his home with coal can be happy about. No matter how choked-up the roads are, you know that with your winter's coal supply in your cellar you don't have to depend on a rush delivery fuel truck that might not make it!

And look at how much I save!

Add it all up, and then throw in the money I've found that I save by burning bituminous coal—anywhere from 60 to 80 dollars a year depending on the winter—and you'll see why I count on coal for steady, healthful, dependable, and economical heat!

BITUMINOUS COAL INSTITUTE
A Department of National Coal Association
WASHINGTON, D. C.

7 good reasons why coal is the most popular fuel in up-to-date farm homes

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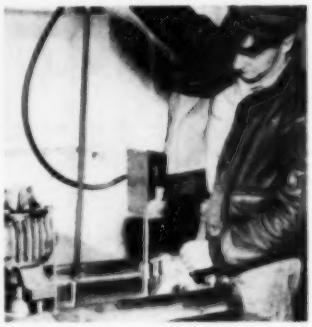
- Fewer "cold pockets"—fewer colds!
- Automatic with stokers and controls!
- Easiest and safest to store!
- Lowest price almost everywhere!
- America's vast reserves make supply dependable!
- America's dependable supply assures price stability!

FOR ECONOMY AND DEPENDABILITY
YOU CAN COUNT ON COAL!

Tanks replace their milk cans

[*From page 56*]



4. On arrival at farm, Twining "weighs" milk in holding tank with a calibrated metal "measuring stick." The "stick" gives a direct reading of the amount of milk in that particular tank. The dairyman gets a duplicate weight slip of milk load

5. Butterfat testing is done at milkhouse rather than at receiving plant. The milk is mixed while Twining is setting up the hose line. He takes the fat test before pumping begins, dipping six samples into a strip cup from as many places in the milk tank

6. From the six samples, Twining takes two samples of 13.5 c.c. each. One sample, goes into the locked, refrigerated compartment of his truck. The accumulated daily samples, also containing a preservative, are turned in at the plant every 11 days

7. The second bottle of composite samples is left with the farmer and is a "carbon copy" of the one turned in at the receiving plant. Jensen has his own D.H.I.A. tester check his sample. The bulk-pickup method has shown a decrease in the bacteria count

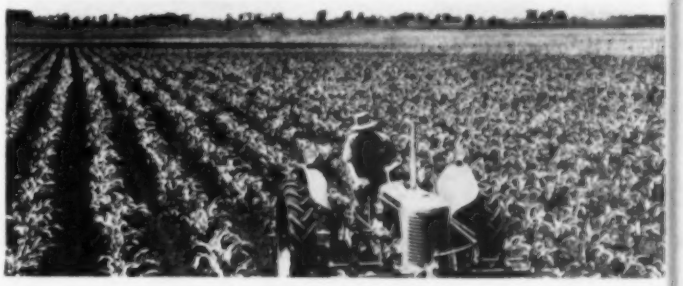
8. Here, hired man George Miller pours milk into 43-can holding tank. It takes 15 minutes to lower 95-degree milk to the 38-degree holding temperature. Bryant and Chapman provide the holding tanks, charging 3 cents per hundredweight for their use

9. An agitator blends the cool milk on the bottom with the warmer milk above. Mixing process is thermostat-controlled. Unlike the old faster-turning, single agitators which often churned butter, the new type of agitator turns much more slowly. END

Secret of top crops— Swift's chemically hitched *Blenn* and Brimm

New process *Blenn*. Swift's specialized crop maker, gives your crops an extra special boost. Its fortified growth elements are chemically hitched in each granule. This means your corn, soybeans, small grains and other crops grow better with BLENN. They produce extra yields of higher quality. BLENN supplements the nutrients in your soil so that your crops get balanced nourishment all through the growing season.

Where BLENN is used, your land produces at top efficiency. Those bigger yields mean lower production costs and a higher return per acre. This is the reason why farmers who use BLENN say . . . "Its cost is not an expense. It is a wise investment."



New process Brimm Also a specialized crop maker from Swift's. BRIMM has definite advantages for crops grown in certain sections, and it is made to meet the varying needs of these crops and soils. It is made in factories located in different parts of the country. BRIMM, too, supplements and balances your soil nutrients . . . particularly in truck crop land in the East, Southwest and Pacific areas. In the South there's nothing finer for corn or cotton than BRIMM.

Both BLENN and BRIMM are made by Swift's New Process. This means they have superior mechanical condition. They store well . . . distribute through your machines uniformly . . . no caking, lumping, or bridging . . . and, most important, the chemically hitched, *fortified* growth elements feed your crops evenly for uniform, high yields.

Buy at the sign of the Red Steer

RED STEER comes in many analyses to meet the needs of your crops and soil. Ask your Authorized Swift Agent or dealer about Swift's Red Steer, the reliable plant food for general crops. Also, Red Steer Pasture Special.

Swift's PLANT FOOD SERVICE RED STEER

Tips for the cook

Ideas that add sparkle to meals and make food preparation easier

A little cold coffee added to a confectioners' sugar frosting gives a toffee-candy flavor that tastes good on spice, white, or chocolate cake. Cream 2 cups sifted confectioners' sugar with 2 tablespoons soft butter and $\frac{1}{8}$ teaspoon salt. Add 2 tablespoons cold coffee and beat until frosting is of spreading consistency.

Graham-cracker crusts are extra delicious with 1 teaspoon grated orange rind mixed in with the sugar and butter. Banana and coconut-cream fillings go especially well with this flavor.

Only three ingredients go to make this peppy, he-man salad. For 6 servings, dice 3 or 4 red apples (do not peel) and

toss lightly with $\frac{1}{4}$ cup finely chopped onion and just enough nippy French dressing to moisten apples. Serve on crisp lettuce and garnish with thin onion rings. Especially good with roast pork or chops.

Red cabbage loses its distinctive color when cooked unless a bit of acid is added. While the cabbage is simmering in a small amount of water, toss in a few grapefruit sections—4 or 5 will be plenty for a small to medium head. Grapefruit makes the red color stay put, the cabbage tastier.

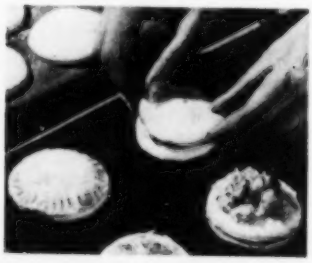
Try this flavor tip for canned-salmon recipes: Add crushed potato chips in place of cracker crumbs to salmon loaf, patties, and croquettes.

Large bowls of frosty green and red punch give a festive touch to January party tables. For the red punch, add 1 quart raspberry sherbet (in spoonfuls) to 2 quarts chilled ginger ale. Blend until smooth and frothy and serve in punch bowl. For the green punch, follow above directions, substituting 1 quart lime sherbet for the raspberry sherbet. Add a few drops vegetable coloring if needed to point up the color. Arrange the bowls at opposite ends of the refreshment table.

A nutmeg trick: For well-flavored prunes, apricots, or peaches, shake a dash or two of nutmeg into saucepan when cooking the dried fruits.

Sweet potatoes are something special prepared this way: Whip cooked sweet potatoes until velvety smooth. Season with salt, pepper, and butter; moisten with pineapple juice. They'll retain their bright color, look extra appetizing.

Try cheese-filled biscuits to glorify an otherwise skimpy meal or round out luncheon menus and meatless meals. Prepare 1 recipe standard biscuit dough. Roll out ¼ inch thick and cut into rounds.



Combine 1 cup grated American cheese, ¼ cup chopped stuffed olives, and 1 teaspoon Worcestershire sauce. Place 1 tablespoon filling on top of half the biscuits. Top the filling with remaining biscuits and seal edges. Bake on ungreased cooky sheets 12 to 15 minutes in 425° (hot) oven. Delicious!

Here are two streamlined versions of rice pudding: For rice pudding with a refreshing lemon flavor, stir ½ cup leftover cooked rice into 1 package lemon pie-filling mix (which has been prepared according to directions on box).

For a vanilla-flavored pudding, stir ½ cup cooked rice and ¼ cup plump raisins into 1 package vanilla pudding mix (which has been prepared according to directions on box). One-half cup drained, crushed pineapple may be substituted for the raisins. Chill and serve the puddings with rich cream or whipped cream.

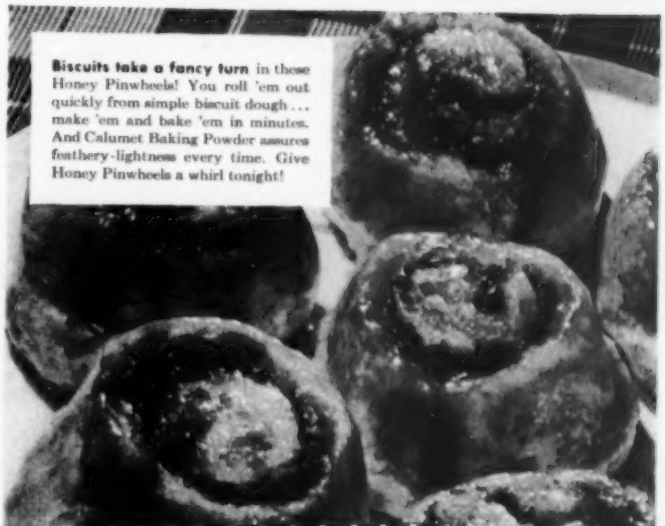
To make raisins plump for salads, cakes, and cookies, and to make them easier to chop, do this: Shake them into a sieve and place over boiling water. Cover with lid and steam 10 minutes.

When chopping raisins, heat bowl and chopper briefly in oven and raisins won't stick. Dates separate readily and are easy to pit if placed in a 350° (moderate) oven for a few minutes. END

Why good cooks choose

CALUMET 2 to 1

over any other baking powder–



Biscuits take a fancy turn in these Honey Pinwheels! You roll 'em out quickly from simple biscuit dough . . . make 'em and bake 'em in minutes. And Calumet Baking Powder assures feathery-lightness every time. Give Honey Pinwheels a whirl tonight!

Honey Pinwheel Biscuits

2 cups sifted flour
2½ teaspoons Calumet Baking Powder
¾ teaspoon salt
6 tablespoons shortening
⅔ to ¾ cup milk*
Honey Orange Filling

*Amount of milk varies with the type of flour used. Southern soft wheat flour requires less milk than regular all-purpose flour.

Note: This tempting variation on a famous biscuit recipe was designed for use only with CALUMET Baking Powder. For CALUMET's Double-Dependable Double-Action assures the *full* lift and lightness that means perfection in cakes, biscuits, muffins, waffles, pancakes and coffee cakes. No wonder more published recipes call for CALUMET than any other baking powder. No wonder twice as many women use it!

Method. Sift flour once, measure, add CALUMET Baking Powder and salt, and sift again. Cut in shortening. Add milk and stir with fork until soft dough is formed (about 20 strokes). Turn out on lightly floured board and knead 20 turns. Roll lightly ¼ inch thick.

Spread about 2 tablespoons of Honey Orange Filling over dough. Roll as for jelly roll. Then cut in ¾-inch slices. Divide remaining filling evenly among greased muffin pans. Place biscuit slices, cut side up, over filling. Bake in hot oven (450°F.) 20 minutes, or until done. Remove from oven and let stand in pans about 1 minute. Then turn out at once and serve warm. Makes 11 biscuits.

HONEY ORANGE FILLING

Cream 2 tablespoons butter. Add 1 teaspoon grated orange rind and ¼ cup firmly packed brown sugar; cream together until light and fluffy. Then add 1 tablespoon orange juice and ¼ cup honey and blend. Makes about ½ cup filling.

A Product of General Foods

CALUMET BAKING POWDER
DOUBLE-ACTING

"On our farm we eat hot Quaker Oats for all-morning energy!"

says...Mrs. Marvin Yoder

Route 5— Lafayette, Indiana

Farm Families Eat More Quaker Oats Than Any Other Folks! It's Tops in Energy-Giving Protein!

Quaker and Mother's Oats are the same

"I always have good hot Quaker Oats on our breakfast table," says bright-eyed Mrs. Yoder, mother of six fine healthy youngsters with good "second-helping" appetites. "Farmers have long hard hours of work from sunup till noon and we need the lasting energy in Quaker Oats!"

Yes, it's not surprising that farm families eat more good nourishing Quaker Oats than any other folks. Did you know it actually supplies more energy-giving protein to help you do a full morning's heavy farm work than any other of the 14 leading cereals? This was proved by a leading State University recently in an amazing test on 14 nationally known cereals. The University reported Quaker Oats first in life-giving protein.*

Find out for *yourself* that a delicious bowlful of hot, creamy oatmeal furnishes you with more stamina, more energy than any other whole-grain cereal. It gives you a happy, well-fed feeling all through your morning's work. Chases away hunger pangs right up till your noon meal.

Busy farm wives appreciate the time-saving 2½ minute cooking of Quaker Oats. And what other breakfast dish gives you the all-morning energy and stamina of Quaker Oats at the low cost of less than one penny a serving?

So to give your family the well-fed, energetic feeling they need for a full morning's hard work, serve delicious Quaker Oats for breakfast every day. Bring up your babies on Quaker Oats because its richer protein benefits all ages. Buy Quaker Oats from your grocer now.

*Results published on Page 163, Vol. 16, No. 2 of "Food Research," a nationally known scientific journal.

QUAKER OATS

THE GIANT OF THE CEREALS

Less than 1¢ a serving!

What's your family like?

[*From page 34*]

dad calls a "real love" for Poland Chinas. He has shown the champion barrow at several intercounty and junior livestock shows. Because Mother and Dad have tried to teach their children the more valuable, lasting lessons, they cagily steered John in the direction of junior 4-H leader. Dad pointed out that there was great satisfaction in *serving*, as well as in collecting blue ribbons. So John moved in on the 4-H recreation field, organized football, softball, and basketball teams. His lessons in community leadership came early.

Perhaps the whole key to the Conzemius story is in helping one another. There's an outpouring of love in this family that extends to community and beyond. It's a wonderful thing, for with it there is always a nice measure of modesty and humility.

It's interesting to observe how the Conzemius children keep each other in line on this score. George, Jr., came home one night proudly reporting that, "The ag teacher sure was glad to hear we bought 35 Black Angus." Obviously disapproving, John asked, "You didn't *just tell* him,

John (right) and teammates get an approving grin from Coach Linn Hildebrandt (center). John since has been graduated from Hastings High. During all his football career, his family rarely missed a game

did you?" "Why sure!" George replied. "You shouldn't have," John said. "It sounds boastful! If someone asks, it's okay to tell him, but don't go round telling people what we're doing all the time!"

Last summer John suggested that Mother and Dad take a western vacation. He and George, Jr., would look after the farm. Before they left, Mother and Dad helped John complete his plans to enter Iowa State College—he had his room, his tuition in order, his courses outlined. When they returned from the vacation, John announced with conviction: "I'm not going to college this fall. I never realized before just how much work there is here, and it's too much for Dad."

He was deeply concerned about overwork for his father who had undergone surgery earlier in the summer. In spite of protests, John insisted on staying home. He has adjusted his plans and will take agricultural courses at the University of Minnesota during this winter semester when farm work tapers off a bit. John wants to be a farmer. Already, he and his father are operating almost wholly on a 50-50 basis.

George, Jr., (nicknamed "Pitch") is a sophomore in high school. He admits,

"The farm is the only place to live—you can drive tractors and make all the noise you want to." He thinks the farm is for him, and his father and John are making provisions for him to join them.

Like John, "Pitch" is a pig enthusiast and started his own collection of blue ribbons by winning first with his Poland China gilt at the Minnesota State Fair in 1950. The women in his family are quite sure that "Pitch" would be perfectly happy if he could live on a farm, play football, and eat apple pie all his life.

"There are seven in our family, but we're individualistic," Mrs. Conzemius says proudly. "Dad and I believe in letting each of the children express his personality. It seems to make us all more interesting people.

"We have always believed in teaching the children tolerance of all religions, races, and economic groups, and we want them to know many people from all walks of life. When we are all at home together, we often have long talks at meals about religious and racial prejudices and why they are bad.

"In many communities, there is a great intolerance of Jewish people. So we've made it, by agreement, a family project to speak up in the defense of these people whenever we hear someone speak against them. Many people are startled by our stand, but it gets them to thinking, and we find them more tolerant next time."

Then it was Rosemary who chimed in with, "You should know my wonderful Chinese friend, Doctor Wong. I met her at the university." It was apparent in Mrs. Conzemius' eyes, as Rosemary spoke, that the whole family was genuinely fond of Doctor Wong.

It was Rita who told the story of their "adopted" Negro family. Jane encountered her first Negro at a 4-H Club meeting in Farmington, Minnesota, and came home to relate, excitedly, that the girl was "very nice—no different from the rest of us." It was from this Negro girl that Rosemary, Jane, and Rita learned of a particularly distressed and needy Negro family in St. Louis. They began writing to the family and soon "adopted" them, now send them boxes of clothing and special holiday packages.

It's the same way with a German family which all seven of the Conzemiuses have "adopted." "We aim to give them a ray of hope," Mrs. Conzemius said with feeling. "Maybe our small effort will

[*Turn to page 64*

Doing thoughtful things for each other is part of living in the Conzemius home. Here Mother and Rosemary work on a surprise birthday gift for Dad—a scrapbook of family history in pictures and clippings

NEW MEXICO COOKING QUEEN

She's Mrs. Harry R. Bowra, 2435 Iris Road, Albuquerque, N. M. She says, "I won blue ribbons at the State Fair these past four years and, in 1950, I won first prizes on two cakes and a bread.

"S.O.S. scouring pads are *always* in my kitchen. They clean my pots and pans faster and easier. I think they're the best on the market."

America's proudest cooks always reach for S.O.S

use S.O.S for all your pots and pans

easily removes BURNED-ON GREASE!

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NEW IDEA Mowers Make Light Work of Heavy Going!

Square corners are quick and easy with flexible power linkage on NEW IDEA Mower above. No time lost for swingout. No cramping or binding.

Speed through heavy stands! Specially designed Pitman lock reduces vibration. Knives stay snug against ledger plates—cut clean longer.

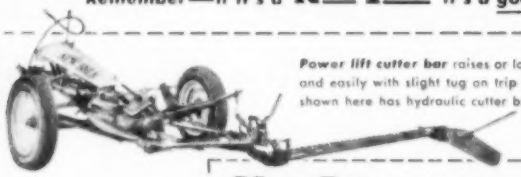
Hidden hazards no danger! Patented automatic safety release swings cutter bar *back* and *away* from serious damage. (Back up tractor to reset cutter bar.)

Fastest "on-off" mowers on the market! Perfectly balanced. Roll easily into hitching position. They're on or off in a matter of minutes.

Take rough ground in stride! NEW IDEA Mowers are low-slung, compact—trail straight over ruts, valleys or mounds. *Full* weight is balanced on wheels.

Two types of NEW IDEA mowers to choose from! NEW IDEA trailer type mowers with mechanical or hydraulic lift cutter bar. NEW IDEA Semi-Mounted Mowers with many speed-up features.

Remember—if it's a NEW IDEA it's a good idea!



Power lift cutter bar raises or lowers quickly and easily with slight tug on trip rope. Mower shown here has hydraulic cutter bar lift.

Mail coupon today for free folders:

NEW IDEA FARM EQUIPMENT CO. SUBSIDIARY AVCO MANUFACTURING CORPORATION

Dept. 409, Coldwater, Ohio

Put check mark beside free folders you want:

- ☐ Tractor Mowers
- ☐ 4-Bar Rakes & Tedders
- ☐ Hay Loaders
- ☐ All-Purpose Elevators
- ☐ Manure Spreaders
- ☐ Lime Spreaders
- ☐ Transplanters
- ☐ NEW IDEA-HORN Loaders
- ☐ Corn Pickers
- ☐ Corn Shellers
- ☐ Stalk Shredders
- ☐ All Steel Wagons
- ☐ Steel Wagon Boxes

Name _____

Address _____

What's your family like?

[*From page 63*]

somehow do a bit to help the situation over there." The Conzemiuses write personal and encouraging letters to "their family" and send them frequent boxes of books, clothing, and food.

There it is again—that philosophy of helping others. It's the thing that influenced the girls in choosing their careers.

Rosemary, who is primarily interested in world affairs and people, has found her spot, for the present at least, as 4-H Club director for Rice County, Minnesota.

Jane, who has always wanted to be a teacher, teaches home economics in a Faribault high school. She considers a summer of seminar work in Milwaukee, Wisconsin, among her most valuable experiences. There she worked with the public-health service in helping parents build better neighborhood recreation programs for their children.

Rita is now majoring in elementary education at the University of Minnesota. She's already doing some teaching and with a twinkle says, "I'm getting used to kids' giving me their prize gifts of fat caterpillars rolled up in leaves."

Though the girls are away from home now, building their own careers, they are, Dad says, regular "homing pigeons" on weekends. He's proud of that. For the most cherished memories this family has, they are quick to tell you, are of the good times they have together.

Every summer Sunday is reserved for fun. Then picnics are family tradition and the big farmyard becomes a baseball diamond or a volleyball court. Such afternoons of fun end in a wiener roast or hamburger fry on the back-yard grill.

On winter Sundays you will find any one of the family on the phone: "How about coming over for skiing or sledding?" They have the reputation of turning every gathering into a party at home. (See this month's cover and page 33.) A growing collection of phonograph records and a piano stimulate many a song fest. The basement recreation room comes alive with the "crack-crack" of table tennis, the smacks of boxing gloves, and the lingering smells of corn popping and George, Jr.'s special fudge bubbling in the pan.

"For a little culture," as John puts it, the family heads for a good play or musical, a Big Ten football game, or the Ice Follies in the Twin Cities.

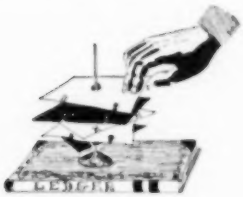
That's the kind of home this Conzemius place is—the kind where happy memories are built every day.

It's a family in which the children feel wanted, needed, approved of; where service to others, tolerance, understanding, and faith in God are stressed as the content of a good life. Here the sacredness of home has been implanted in the hearts of five children forever.

It's like this: When Jane went to Iowa State College, it was the first time she'd been so far from home so long. She became terribly homesick. That same fall, she won a trip to the National 4-H Club Congress—a top achievement in any 4-H'er's book. This recognition involved a trip home as well as the one to Chicago. Later Jane told her mother, "It was ever so thrilling to go to Chicago, but, Mother, the highlight was *that trip home!*"

George and Marguerite Conzemius have done a great work indeed! **END**

An easy way to keep farm accounts



Many times you may not post small items in farm account books because you forget them before you get around to posting them, or there was no sales slip accompanying them.

Here is a method requiring only a scratch pad and a spindle. It can be done any time at your convenience.

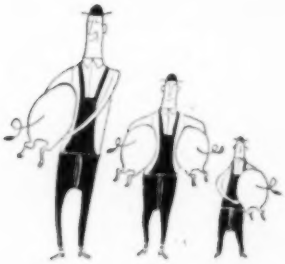
1. On a scratch pad write the date, name of the item purchased, and amount. Regular sales receipts can also be handled the same way, but be sure the three items mentioned are on each one. Keep a pad handy in your pocket for small items.

2. Place each slip on the spindle, near the account book, *upside down*. Then, when you take the slips off for posting in your account book, they will be in the right order.

3. Now, whenever you've some time, sit down and bring your account book up to date.

This method has an advantage over a wall chart by the door, or by posting at a regular time, because you can keep track of even the smallest transactions *when they are made*. Then you don't have to rely entirely on your memory.—*Dallas Coffin.*

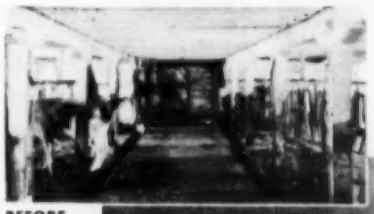
It's the truth



Clockwise Both ways Counter-clockwise

Which way does a pig's tail curl? Farmers near Hastings, Michigan, decided to find out. So they made a survey. Fifty percent of those interviewed said their pigs' tails curled clockwise; a third reported they had pigs whose tails curled both ways; 17 percent said counterclockwise. —*Gus Larson.*

Modernize inexpensively with Johns-Manville *Asbestos Flexboard**



BEFORE

AFTER

This sanitary dairy barn with Flexboard walls and ceiling was formerly the rough, dirt-collecting interior pictured above.

- Fire Proof
- Rodent Proof
- Rot Proof
- Sanitary
- Easy-to-apply

Send for our free book that shows you how "Flexboard Builds Everything"

This book gives you example after example of how J-M Asbestos Flexboard is solving endless remodeling and building problems on farms all over the country.

It tells you how Flexboard, made of asbestos and cement, comes in big, strong, fireproof sheets that can be nailed without drilling and cut with an ordinary saw.

It shows how Flexboard is used for safe, sanitary, easy-to-maintain walls and ceilings—for dairy barns, milk houses, poultry houses, storage bins, etc.

It shows you how Flexboard can be used for low cost, fireproof and weatherproof *exteriors*, both on new work and right over old weatherbeaten walls.

You also get a Flexboard Handbook *Free*

This handbook gives you full descriptive information about the application of Flexboard. It shows how to cut and work the large asbestos cement sheets with ordinary carpenter tools. It gives you complete construction details including corners, joints, window openings, etc.

If you have a building or remodeling problem, large or small, exterior or interior, send this coupon today.

*Reg. U.S. Pat. Off.

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Please send me Free of charge your 16-page book, "Flexboard For The Farm," together with Handbook of Instructions.

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JM Johns-Manville BUILDING MATERIALS

Don't Let a Hard Winter Rob Your Spring Pig Crop!

Despite dry fall pastures, severe winter and farrowing conditions like this picture . . . 65 sows and gilts on the Semi-Solid Iowa demonstration farm last spring farrowed 10.06 pigs per litter; weaned 8.7 and averaged 8.5 pigs per litter marketed at 5½ months weighing 210 lbs.

SEMI-SOLID
SOW EMULSION

Prepares Your Sows Now to Save Big Litters of Husky Pigs

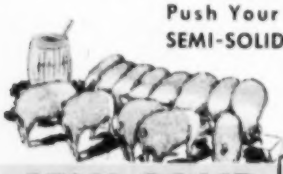
The most important time to feed a baby pig is when it's in its mother. If your sows and gilts have to forage for themselves through a cold, tough winter, farrowing time may be too late to save your spring pig crop.

Feed unborn pigs through their mothers now by giving your bred sows and gilts a ration containing Semi-Solid Sow Emulsion. Sow Emulsion helps provide for safe levels of nutrients that are often deficient in winter rations. Normal development of pigs requires the Vitamin D, "sunshine vitamin," Vitamin A, "greenstuffs vitamin," plus the B-complex vitamins, minerals and proteins. Semi-Solid Sow Emulsion provides these and many other nutritive advantages.

Just one extra pig saved next spring and fed to market can pay for all the Sow Emulsion a sow or gilt eats through her gestation and nursing periods. And Sow Emulsion can help you average 8 to 10 husky pigs that weigh three lbs. or more at birth . . . pigs that live, thrive and grow because their dams are conditioned to be good mothers and good milkers. To get big litters of husky pigs next spring, get Semi-Solid Sow Emulsion from your feed dealer NOW!

Push Your Fall Pigs With SEMI-SOLID PIG EMULSION

A warm drink of Semi-Solid Pig Emulsion every morning helps keep your fall pigs thrifty and growing even under winter feeding conditions. Save corn and protein supplement and speed hogs to market with Semi-Solid Pig Emulsion.



SEMI-SOLID CP CO EMULSIONS

CONSOLIDATED PRODUCTS COMPANY, DANVILLE, ILLINOIS

Division Offices: Des Moines, Ia., Princeton, N. J., Sacramento, Calif.
Makers of Semi-Solid Buttermilk, Semi-Solid Emulsions and Kar-A

© 1952

Companion crops—bees and legume seed

If you raise legume seed, you may want to look into beekeeping as a profitable companion enterprise. C. D. Floyd, the apiary supervisor on the Minnesota state entomologist's staff, says experts have estimated that 18 bushels of alfalfa seed per acre isn't impossible, given plenty of bees to do the pollination job. And, of course, all other conditions have to be favorable.

In Nebraska, under commercial conditions, it was found that 5 or 6 hives of bees per acre resulted in 500 to 600 pounds of alfalfa seed per acre. The United States average is only 2 bushels. Similar increases can be expected in other legumes grown for seed.

Some commercial beekeepers are taking contracts to pollinate legume fields. But these contractors can't meet all the demand, and Floyd sees a day when farmers who raise legumes for seed will require 100 colonies of bees to pollinate each 20 acres.

"It's a good plan to gain experience with a few colonies, especially if you never have kept bees before," Floyd says.

Here are his recommendations for the beginner:

Start as a "back-yard" beeman, with not less than two colonies and not over three for the first year or two, while you are learning. Buy new equipment. Used materials sold to you at a low price may be infected with disease. You can spend $30 per colony to get started but you can get along, if you wish, by skimping on equipment, for $18 to $20.

You need a hive unit for each colony; 10 pounds of sugar for feeding; a 3-pound package of bees, with queen; a smoker; veil; hive tool; beeman's gloves, and hive brush to set yourself up in beekeeping

Order your bees from a reliable source, to arrive early in April. When the bees arrive, consider them as you would baby chicks. They need protection, attention, and feed. The bees, with their queen, are installed in the hive and fed according to directions usually provided. A package contains from 5,000 to 7,000 bees. In 11 weeks, if well fed, they will build up to 50,000. That is a satisfactory population. They must be fed sugar syrup until enough nectar is available, usually late in June.

Honey is actually a by-product to the seed raiser, but a well-cared-for colony will make 150 pounds. Seventy pounds may be harvested. Two ways of wintering colonies are popular—in a cool basement or in a protected hive outside. The beginner, however, may do better by killing his bees in the fall, selling the honey they would consume, and buying new packages in the spring. After he has grown in experience and confidence, he can try wintering his colonies. **END**

Growers join to market own potatoes

Seven Ohio potato growers are capitalizing on the fact that if consumers like a product well enough they will remember the brand and buy it again.

Organized under the name of Tri-Valley Packers, Inc., they leave no stone unturned in getting a uniformly high-quality potato in the consumers' hands.

The seven grow 500 acres of potatoes on their own land, using all the best practices—irrigation, frequent spraying, vine beaters, and so on. When digging starts, four of the men run the operation on all the farms. The other three supervise the packing plant—which is an old aircraft hangar. Each grower gets paid the average price per grade for the season on the potatoes he produces.

Mechanically loaded and unloaded trucks carry the potatoes from field to packing house. At the plant the potatoes are graded, washed, dried, sorted, and bagged. Half are bagged in 25-pound bags, the remainder divided between 10- and 50-pound bags.

Big selling point of these potatoes is quality. Wholesale buyers who saw the clean, uniform, careful pack almost went wild over them. "Easiest selling we ever did," according to company president Louis Fenning (one of the seven growers).

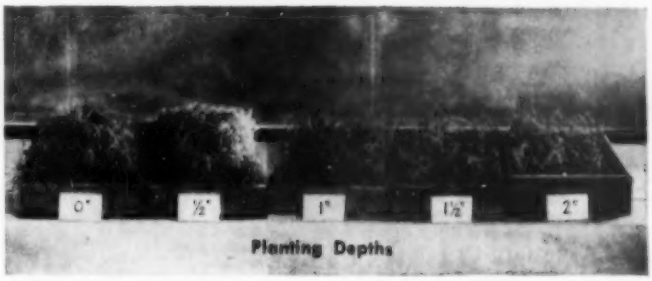
So you're going to move . . .

Please be sure to send your change of address to *Successful Farming*, Des Moines 3, Iowa, five weeks before you move, if possible.

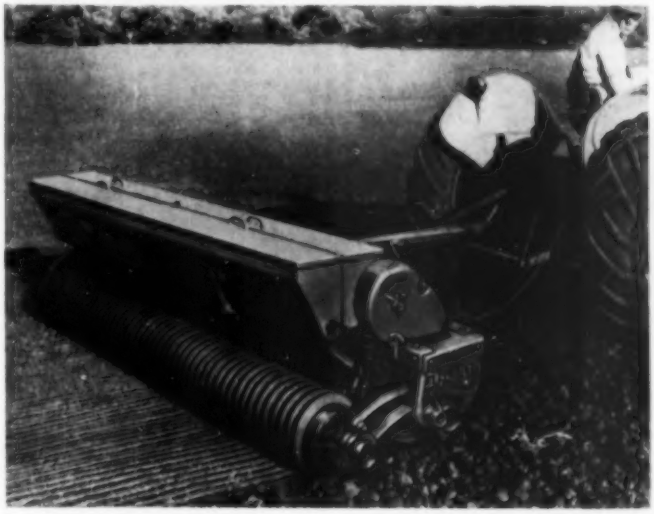
Give both your *old* and *new* addresses. A clipping of the stenciled label from a recent issue will help us to see that you don't miss any copies of your *Successful Farming* subscription.

GRASS CATCHES BEST

WHEN PLANTED WITHIN THE TOP ½ INCH OF SOIL



The numbers on these boxes show the planting depths . . . same seed . . . same soil . . . same care. Although this test was made at a leading agricultural college, anyone can make the same test for himself. Simply sow some of your best grass seed at different depths in boxes of similar soil. Give it the same care. If you use Kentucky blue grass seed, for example, you will find a 10 to 20 times better stand in the boxes sown within the top half inch of soil compared to seeding 2 inches deep. The same thing happens in your field. When grass seed is broadcast or drilled, most of it is buried too deep, or falls in open spaces between lumps. As a result, one-half to two-thirds of the seed you sow never comes up. Can you afford this loss at today's prices?



This is the Seeder that Gives You a Good Sure Stand of Grass

With a Brillion Sure-Stand Grass Seeder, you'll prepare a good seedbed and do a more accurate job of seeding. And you'll do it in one simple operation!

Field tests prove that — compared to the usual methods of seeding — a Sure-Stand Seeder saves as much as half in seed costs alone. Considering today's seed prices, this means big cash savings!

The front roller crushes the lumps and firms your seedbed. Your seed is meted out at the exact rate you set. Then the rear roller packs it gently in the top half inch of soil — where it will germinate best!

Consider the big savings in seed, time and work, and you'll see how a Brillion Sure-Stand Seeder on your farm will quickly pay for itself!

Have your Brillion dealer show you the complete line of Brillion Sure-Stand Seeders, Pulvi-Mulchers and Pulverizers. Or write for completely illustrated folders describing the Brillion Sure-Stand Grass Seeder.

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Brillion
SURE-STAND SEEDER
"TUCKS EACH SEED TO BED — IN THE TOP HALF INCH OF SOIL."

WYETH PENSTIX®-SM CLEARS UP STUBBORN MASTITIS CASES FAST

OMAHA, NEB.—Operating a 950 acre farm near here, Bob Steffen, manager of the farm, and Bob Johnson, herdsman (pictured above), are both enthusiastic about the use of Wyeth's Penstix-SM bougies for mastitis in their dairy herd.

Bob Steffen puts it this way: "Right now we're milking 65 grade and purebred Holsteins and for many months now have been using Wyeth's Penstix-SM for mastitis control in the herd. Since switching to Penstix-SM we've had excellent results in clearing up some of our most stubborn cases of mastitis. The Penstix-SM bougies are easy to insert into the infected quarter and they go to work fast.

"The combination of penicillin and dihydrostreptomycin is apparently just what we need, because we often get cases of mastitis caused by mixed infections. The two antibiotics work better than any single one we've tried.

"In mild cases one Penstix-SM is generally enough to do the job . . . for the more severe infections we may use up to three or four."

Bob Johnson adds, "We've often used Penstix-SM for teat injuries to play safe and keep out infections. They work out fine."

CONSULT YOUR VETERINARIAN AS YOU WOULD YOUR PHYSICIAN

WYETH'S PROVEN PRODUCTS FOR MASTITIS CONTROL

- PENSTIX penicillin bougies or PENSTIX-SM, penicillin-streptomycin bougies (the combined antibiotic treatment for more severe infections) are available at your drug, feed or Animal Health Products store.
- For cows with dry quarters, or with more deep seated infections, many dairymen prefer WYETH PENICILLIN OINTMENT or PENICILLIN-DIHYDROSTREPTOMYCIN OINTMENT, in handy easy-to-insert tubes.

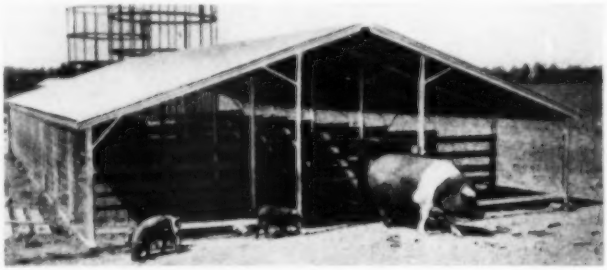
WYETH
Incorporated,
Philadelphia 2, Pa.

Wyeth ®

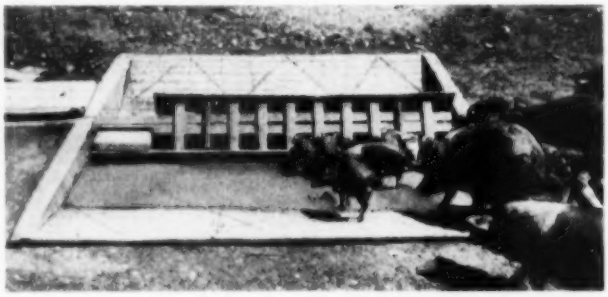
He raises hogs the easy way

[From page 16]

Large angle-iron sunshade, built in 12'x14' sections, is easily moved. Old hay or weeds, held up by wire fencing, cover top. Corncobs from the giant crib feeders are spread on field (background). A manure scoop is used to load the cobs



Angle-iron farrowing houses are built from 2"x2", 3/16-inch angle iron. Cost runs about $35 per pen. Wooden sheathing between angle iron and aluminum roofing prevents corrosion. In winter, metal panels cover wire-cribbing sides



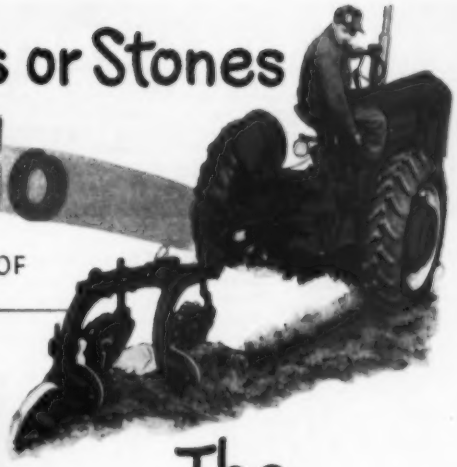
Year-round waterer, fed by hillside spring, provides water for hogs. Dirt is removed by sediment tank. A constant flow prevents freezing

Two swinging doors allow Orschell to move 14'x20' shelters through gate. Open-front houses allow good air circulation and prevent dampness

Corn is self-fed from the crib feeder in field where it's grown. Feeding floor prevents waste. END

When It Hits Stumps or Stones

It Lets Go



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Does 100 Jobs

HUSTLES YOUR FIELD WORK

HELPS WITH YOUR CHORES

You can do more jobs . . . and do them better . . . with the improved Case Model "VAC" than ever was possible before with a low-cost tractor. Besides doing all your regular field work you can dig post-holes, grade a road, clean ditches, plow snow, load manure, saw up logs. With its Eagle Hitch you can make one-minute hook-up to Utility Carrier and haul big boxes and bales, cans of milk, rolls of fence, drums of oil—with hydraulic control doing the heavy lifting from ground level. Latch onto the power-take-off hammer mill and go grinding—or line up quickly to belted mill. For your field work you can have *both* front-mounted "look ahead" cultivators and rear-mounted tool-bar tillers, plows, harrows, planters, mower. And remember— the Case "VAC" has independent swinging drawbar, right-height power take-off, and a moderate-speed, heavy-duty engine for long life with low upkeep.

New for 1952. New steering gear provides pivot-point turns on one rear wheel. Ball and roller bearings make steering fast, easy, yet shock-free. New shoe-type brakes hold surely, going ahead or backing. Bigger wheels and tires give more positive traction, add inches of under-clearance. See your Case dealer now—arrange to try the "VAC" at work on your own farm.

CASE

GET THE FULL STORY...

Case builds 25 tractors, a full line of farm machines. Mark here or write in margin any you need. J. I. Case Co., Dept. A-77, Racine, Wis.

- ☐ Low-cost 2-plow "VA" Series Tractors
- ☐ Larger 2-plow "S" Series Tractors
- ☐ 3-plow "D" Series Tractors
- ☐ 4-5 plow "LA" Tractor
- ☐ Break-away Plow

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POSTOFFICE _____

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NOW YOU CAN SAVE ALL YOU GROW!

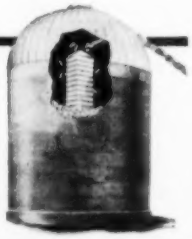
NO LONGER do you need to watch a bountiful harvest dwindle in value month by month due to mold, shrinkage, rodent losses, etc.

NO LONGER will you need sell your crop on a low market because of high moisture content.

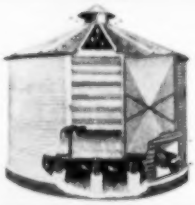
NO LONGER need you worry about how well your crops are carrying through the winter months.

INVESTIGATE MARTIN CROP-CONDITIONING METHODS NOW!

FOR GRASS: The Martin Haymaker enables you to cut and store your hay free from weather worries. Capture the high food value of fresh pasture by conditioning your hay in the Martin Haymaker. Let the Haymaker perform nature's job of removing the moisture from the hay where it is safe from the weather elements. You can save in feeding time, too, by letting the cattle feed themselves. Then round out your grass feeding program by making the finest quality grass silage in the Martin Silo—the most rugged silo built.



FOR CORN: You can pick your corn early, regardless of moisture content, and store it in the Martin High Round Crib with assured safety. Soft corn losses, field losses and damage, down grading—all can be eliminated by curing your ear corn in the Martin High Round Crib. Early picking allows discing under stubble to effect corn borer control—permits preparing soil for fall planting.



FOR SMALL GRAINS: Shelled corn, soybeans, wheat, oats, barley, rice, grain sorghums—all can be dried and safely stored in the Martin Conditioning Bin. You can fully protect your investment and get the highest prices for your crop by conditioning and storing it in a Martin Bin.

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CONDON'S GIANT EVERBEARING TOMATO

QUEEN OF THE MARKET—Big Money Maker. Large, Solid Red Fruit. Excellent Canner. Almost Seedless. To introduce our Superior Seeds, Plants, Bulbs, Roses, Perennials and Berries, we will send 125 Seeds of Condon's Giant Everbearing Tomato and Big Colored Catalog. Send 3¢ stamp for postage.

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Save $5.00!

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It's So Easy—just start seeds soon in any sunny window. And they're so interesting to watch. The plants you grow for 10c would cost 25 to 50 to buy. Wonderful for house plants, window boxes, and garden. Enormous flowerheads, gorgeous mixed colors. SPECIAL—20 Geranium Seeds 10c, with directions how to grow. *Send Dime Today!*

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555 Burpee Building, at nearest city:
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Alfalfa-corn harvester

A dual-purpose machine that harvests green alfalfa and picks corn has been built by Marvin Rohloff, farmer of Graytown, Ohio.

Rohloff farmed 800 acres and had never owned a cornpicker. In 1949 he bought a standard 2-row, self-propelled cornpicker. As he picked corn that fall Rohloff figured out a way the machine could be converted to harvest green alfalfa for his alfalfa-dehydrating plant.

Starting early in 1950, Rohloff built a 12-foot alfalfa harvester and chopper over the original machine, as shown below. Green alfalfa is cut and chopped for the dehydrator from about mid-April through October. After the alfalfa harvest, the machine is easily and quickly changed to a cornpicker.

Photograph: Grim

Hauls water on wagon hitch

When water is needed in pastures which have no natural supply or cannot be reached by the farm water supply, Otto Orschell, Wayne County, Indiana, doesn't make an extra trip to get water to his hogs. He just throws a 55-gallon barrel (see picture below) on the wagon hitch and takes the water to the hogs at the same time feed is hauled to the field. This enables Orschell to cut the time spent in taking care of his hogs.

A short piece of gas pipe, welded to the hitch, holds the barrel in place. The barrel is filled with a hose from the farm water supply.

Photograph: Pease

"We really jumped the profits on our home-grown feed with *MoorMan's*"

Ralph Snodgrass, Antelope County, Nebraska

"...plenty of home-grown feed, so we buy *only* the concentrates we need"

"We've found that our livestock and poultry profits really jumped when we supplemented our home-grown feed with only the concentrates we need to do a complete feeding job," says Ralph Snodgrass, Antelope County, Nebraska.

"MoorMan's fits our feeding program to a "T." Baby pigs are started on corn and Pig Mintrate. At 75 pounds they're switched to corn and Hog Mintrate 45. We figure only $5 buys enough MoorMan's to put a 225-pound hog on the market. And, with MoorMan's, we can raise 4 to 4½ pound chickens in 12 weeks for an out-of-pocket cost of 35 cents each.

"Another reason we like MoorMan's is this; their concentrates seem to have the right stuff to help sows farrow big litters of strong, frisky pigs. We raise from 8.5 to 9 hogs a litter. Last fall we sold 232 hogs from 26 litters, and our records show they made an average daily gain of 1.26 pounds from birth to market.

"That was a mighty profitable hog crop because our feed costs for the complete feeding job were so low."

PIG MINTRATE, newest development of MoorMan's famous research laboratories, is a highly-concentrated, completely mineralized and vitamized 43% protein concentrate developed especially for baby pigs. It contains an antibiotic supplement, such vitamins as natural B_{12}, riboflavin, niacin, calcium pantothenate and Vitamins D and G, and is extra rich in fish meal, meat scraps and blood meal.

When 100-day-old pigs have been fed Pig Mintrate and yellow corn, they usually average 24 pounds more than rates of gain classed as "excellent" by the USDA a few years ago.

CHICK MINTRATE contains 31 ingredients in a highly-concentrated and completely mineralized and vitamized 43% protein baby chick concentrate. Ingredients include an antibiotic supplement, important health, thrift and growth vitamins, and such rich proteins as fish meal, meat scraps and condensed fish solubles. Combining yellow corn and Chick Mintrate results in a high-energy, low-fiber starter that usually produces 4 to 4½ pound chickens in 12 weeks, or less.

Ask your MoorMan Man how you, too, can jump your profits on the feed you have right on your own place. If no MoorMan Man calls, write, Moorman Mfg. Co., Dept. R2-1, Quincy, Ill.

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SQUIBB
A NAME YOU CAN TRUST

Are farmers riding for a fall?

[*From page 7*]

This will tend to stabilize the income both of producers of storable crops and of the livestock industry, which is based on the utilization of feed grain.

Our rapidly increasing population

Thus far, little has been said about how *farmers* will be affected by these new economic forces, in contrast to other economic groups.

Farm prices will continue to depend primarily on the supply-and-demand situation for food and fiber. On the demand side, the two important factors are population numbers and per capita purchasing power.

Our population is increasing at the rate of 1 to 2 percent a year. Ten years from now there will be 15 to 25 million more mouths to feed. Farmers must produce 10 to 15 percent more food and fiber from our present cropland *merely to maintain present levels of consumption*. This increase in population is a powerful factor, tending to keep the demand for farm products rising each year. If one looks ahead 25 years, an increase of *30 to 40 percent* in farm output may be needed just to permit us to continue present per capita levels of food consumption.

Fortunately for the consumers, the continued discovery and adoption of new output-increasing technology assures us annual increases in farm output fully as great as the annual increases in population—*in the near future*. From the farmers' standpoint, it is indeed fortunate that our population is increasing rapidly. For much of the expected increase in farm output in the next 10 or 20 years would occur even though there was *no* increase in population. The economic prospects for agriculture would be bleak indeed if it were not for our rapidly expanding population.

Importance of increases in consumers' incomes

It is probable that farm output will increase even faster than population numbers, in the immediate future. Increased use of fertilizers, improved treatment and management of grasslands, improved seed strains, increased use of more powerful pesticides, and supplemental irrigation in the humid areas may give us increasing per capita supplies of food and fiber.

Many people believe that this spells economic ruin for farmers, because the human stomach is limited. They tell us when a person gets his stomach full his demand for more food drops to zero. If more than the customary per capita supplies of food are produced, prices will drop almost to giveaway levels.

But studies of consumers' food-purchasing habits over the past 22 years have been made by the Bureau of Agricultural Economics. These show great shifts in kinds and quantities of foods bought by consumers as their incomes increase. Even though their stomachs stretch but little, when incomes rise, families acquire larger garbage cans—and they are more particular about what goes into their stomachs.

For years, consumers have been spending 22 to 27 percent of their disposable income for foods and beverages. As their incomes increased and declined in the past 22 years (and most of the changes have been increases since 1932), for every $1,000 change in consumers' disposable income there has been a $200 change in the amount spent for food at retail. *This is a tremendously important fact to keep in mind.*

In percentage terms, a 10-percent change in the consumers' per capita income results in an 8-percent change in the amount spent for food at retail and a change of around 10 to 12 percent in farm prices.

Significance of changed outlook

In this new economic environment in which we find ourselves today, the conservative business decisions are sharply different in character from those in a "normal" peaceful economy. Further inflation is more probable than a sharp deflation. Yet the latter cannot be ruled out.

Farming costs are now at record levels, *and will push higher*. Farm expenditures which took 50 to 60 percent of the gross farm income in recent years will take an even higher percentage in the years ahead. *The farm family's net income can be maintained or increased only by continually expanding output per man and per acre.*

Farm families might well undertake expansion plans at the earliest opportunity, even though they involve the use of credit. The goal should be a farm unit for each family which fully utilizes the family labor available on a farm equipped with modern machinery and equipment.

In this period of an insecure peace, the less efficient and the less capable farm managers will be forced out of farming more quickly than usual, but the economic opportunities for the better-than-average farmers appear to be the best on record. Taking into account the advantages of rural living if a third world war should break out, as well as the economic considerations, *the advantages of farming as compared with other occupations appear to be higher today than in any earlier period in our history.*

Young people wishing to start farming are more likely to *lose* than to gain if they decide to wait a few years, hoping to find a more favorable time in which to start. They have no choice but to go more heavily into debt in their beginning years than their fathers or older brothers did. This is true even though they start as tenants.

The advantages of *renting* a productive farm of adequate size rather than *buying* a smaller, less productive farm are even greater than in past years. When a young family has accumulated sufficient capital to purchase a productive family-sized farm, however, there seems to be little reason for delaying the purchase in the expectation of lower farmland prices.

Older families wishing to retire from farming should make careful plans to assure themselves sufficient income for living expenses in their old age. In this highly uncertain and inflationary world, equitable arrangements should be worked out with the young people taking over the operation of the farm so that both parties share in the changes in price levels which will occur. One method of doing this is to sell the farm for a specified share of the crop over a period of years.

Each farm family will have its own individual problems. The important consideration is that decisions are made in the light of these *new* economic forces—rather than on the basis of customs built up in a different economic setting. **END**

The De Laval Combine Milker
AND REFRIGERATED FARM TANK

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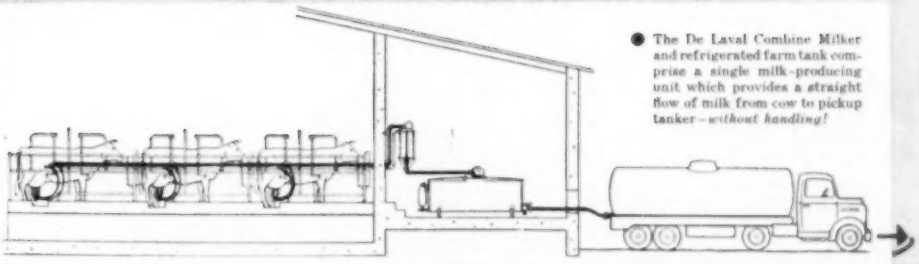


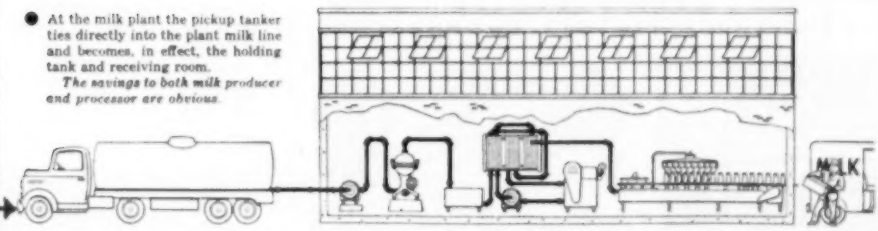
● The De Laval Combine Milker and refrigerated farm tank comprise a single milk-producing unit which provides a straight flow of milk from cow to pickup tanker—*without handling!*

Milking the greatest number of cows with the least amount of help... getting the milk from the farm to the milk plant at lowest cost and with minimum handling . . . producing higher quality milk and getting paid for all of it . . . cutting down the loss and waste of rejected milk—these and many other advantages are being enjoyed right now by dairymen using the De Laval Combine Milker with refrigerated farm tank.

This De Laval Combine Milking system is truly straight-line milk production with every bit of non-profitable walking, carrying, pouring, straining and can handling eliminated. Write for the full story today. P.S. Bulk tank pickup . . . elimination of the milk plant receiving room . . . the end of can handling, repairs and washing and other economies are facts for milk plant operators to study and consider. Write for Bulletin SA 769.

● At the milk plant the pickup tanker ties directly into the plant milk line and becomes, in effect, the holding tank and receiving room.

The savings to both milk producer and processor are obvious.



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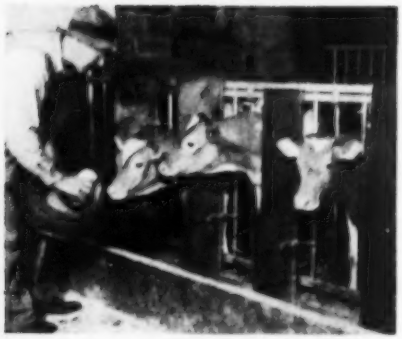

SuperSol Cuts Calf Starter Costs in Half!

Add SUPERSOL to the feedstuffs you have on your farm. You'll have an unexcelled calf starter!

A SUPERSOL calf starter gives you two BIG advantages. First, it costs about half as much as most calf starters. Second, SUPERSOL-fed calves grow faster. Here's the evidence.

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Compare costs yourself. You already have 80% of the SUPERSOL starter on your farm . . . corn, oats and oil meal . . . or any palatable fitting feed. SUPERSOL comprises only 20% of this starter ration. Furthermore, you do not sacrifice feeding advantages when you reduce your starter costs by using SUPERSOL. Actually, the growth and development of SUPERSOL-fed calves is superior to calves fed other starters.

In university tests conducted over 2 successive years, calves fed SUPERSOL with grain and oil meal grew 15% faster than the standard rate of growth for the breed. Jersey calves gained 107 lbs. in 16 weeks. Calves, in these tests, received fluid milk for only 7 weeks.

SUPERSOL IS A NATURAL CONCENTRATE

SUPERSOL is derived from the yeast fermentation of grain. It is one of the richest *natural* sources of the B vitamins . . . and, in addition, it contains guaranteed high levels of vitamins A and D. These are the nutrients most essential to the health and growth of calves. SUPERSOL is also rich in proteins and trace minerals.

A little SUPERSOL gets big results. In a calf starter use only 20% SUPERSOL . . . one fifth of the total grain ration. For creep feeding growing heifers, 10% is recommended. Just remember . . . a fair trial will convince you that SUPERSOL *is the secret of a superior ration.*

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Planting chart in your 1952 St. Joseph Calendar and Weather chart. At any drug counter now, it's **FREE**

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SPECIAL ONLY 25¢ WITH THIS AD

GUARANTEED TO BLOOM THIS YEAR! Genuine, hardy TENUIFOLIUM. Winch at least $1.00. Grow 18 to 24" high, with many waxen, recurved flowers of brilliant scarlet on strong stems. Easy to grow in any soil. New Friends Special—10 bulbs, our new catalog, and magazine "Seed Sense" — all for 25¢ (stamps or coins) and this ad.

Henry Field Seed Co., 679 Oak St., Shenandoah, Iowa

Poultry's future

[*From page 48*]

disappearing. There is little need for continuing this old method of selling poultry. In the future, consumers will be able to buy attractive and appetizing dressed poultry which has been processed in modern plants, supervised and inspected by health officials. The chicken of tomorrow will not only be the best-bred and -fed bird ever marketed, but also the best-processed and -merchandised.

Current receipts are doomed. Another eventual casualty will be current-receipts eggs. Under the old hit-or-miss method of producing and selling eggs, the current-receipts classification was good enough. However, today's current receipts are outdated and there is little need for continuing this grade.

In states producing a good run of eggs and where there is no organized buying on grade, current receipts usually are upgraded to the advantage of the buyer only. Within the next 5 or 10 years, most country grocery stores will discontinue handling current receipts—there will be little or no retail demand for them. Already retail markets feature cartoned, refrigerated eggs.

Farm fryers are fading, too. The old-fashioned spring chicken will join the fade-out of small, borderline flocks, New York-dressed poultry, and current receipts. Commercial meat production has doomed any future for this kind of poultry. The processor recognizes this, for he is locating his plants in areas where he is assured a volume of commercially produced, quality poultry the year round.

We are now producing for the first time a volume of quality poultry and eggs which consumers want.

Small operator still has a chance. What does this mean to the man running a small poultry enterprise of his own? Will he be able to stand up against competition from mass-production methods, using outside capital, mechanization, and up-to-date processing and distributing facilities?

The chances are he will. In a way, they may mean a distinct advantage for him. Any operation classified as big usually becomes dependent upon hired labor and other outside sources of help. The poultry industry should not allow the marketing and distribution of its products to become too dependent on high-priced, specialized labor.

There is still no labor substitute for that done by the flockowner himself. This makes large operations more vulnerable from the standpoint of labor costs. As a result, the big broiler and egg plant will have difficulty in competing with the smaller one on costs.

Looking ahead, the small operator has a chance to cut costs further by more direct selling to home markets.

Nondescript flocks on shaky ground. The producer who needs to worry is the individual with a nondescript side-line flock. Or, a borderline operator who has failed to keep abreast of the market. His prospects are dark. Not that large commercial producers will take over poultry meat and egg production, but it's just good business to realize the day of *quality* eggs and poultry is here.

Many grocery stores in Iowa already have quit buying eggs because there is no future in the purchasing and selling of current receipts. Illinois just recently enacted a new state egg-grading law, placing emphasis on the sale of eggs by grade. These moves are the result of consumer demand.

Flock size will increase. However, the increase will not be at the expense of the medium-size flock. Many poultrymen will have to decide to get in or get out. This will depend a great deal on geographic regions and other competitive agriculture. In New York State, for example, there are more flocks of less than 100 birds than there are in Minnesota. New York has 69 percent, Minnesota 32 percent.

No particular area will have any advantage over another. Future opportunities will continue to be well scattered throughout the country. Feed prices are quite uniform regardless of area. Many people think the Midwest, because it is the nation's granary, has the edge over other areas in feed costs. This is not true. The average 1950 farm price of laying mash as reported for Maine was $4.52 per hundredweight; Illinois, $4.65; and California, $4.68. On scratch grain the average was $4.16, $4.10, and $4.10, respectively.

Easy financing is questionable. To what extent will future poultry development depend on credit? Surprisingly, commercial-broiler production in our major producing areas is about 80 percent financed. Not that all financing is bad business. But it is bad business unless it is done with legitimate credit agencies, such as banks.

Speculative financing, where the operation is promoted on little or no equity, will lead to a volume of production unrelated to specific markets. This in turn will create temporary gluts and surpluses, which have plagued the industry from time to time. The greatest demand for price supports and "bailouts" has come from areas where there has been unsound financing. Agriculture has had splendid cooperation from independent and chain-store groups in helping to move distress surpluses.

The poultry industry of tomorrow will be made up of producer, processor, merchandiser, and consumer. This combination is now working in a manner undreamed of years ago. The results are paying off in graded, cartoned eggs; attractively packaged and displayed poultry, and a consumer acceptance indicating greater consumption. **END**

SUCCESSFUL FARMING

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re-ring before re-sleeving

You just build up extra expense if you keep on running your tractor until the cylinders have to be re-bored or re-sleeved.

You'll save real money and get top performance, too, if you replace worn tractor rings at the first sign of oil pumping or loss of power—thanks to Hastings Chrome Piston Rings.

cut costs two-thirds

A partial overhaul with Hastings Chrome Rings costs only about one-third as much as major overhaul with re-bored or re-sleeved cylinders. Many repairmen and tractor owners report two replacement installations of Hastings Chrome Rings before re-boring or re-sleeving is necessary.

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Over the past five years thousands of tractor owners have proved Hastings Chrome Rings give many times longer service life than conventional cast iron rings—provide hundreds of extra hours of peak performance and economical operation.

So when your tractor loses power or starts using too much oil, install Hastings Chrome Rings right away. You'll save money, get longer service life and top performance and economy. It will pay you to replace with Hastings Rings in your cars and trucks, too.

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Neat! Easy! No scraping.

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And Brillo has *jeweler's polish*—shines as it cleans! Wonderful on aluminums. Fine for casseroles!

Brillo now lasts longer!

More Shines in Every Pad!

RED box — soap-filled pads
GREEN box — pads plus cake soap

Stew for supper

[From page 30]

Texas Beef Stew

Serves 6

Place 2 pounds round steak, cut in 1-inch strips, in large bowl
Cover with mixture of:
- ½ cup water
- ½ cup vinegar
- ¼ cup catsup
- 1 teaspoon chili powder
- 2 bay leaves
- ½ teaspoon black pepper
- 1 tablespoon Worcestershire sauce
- 1 clove garlic, minced
- 1 large onion, sliced
- 2 teaspoons salt

Let stand 4 hours, turning meat every half hour.
Remove meat and strain marinade. (If highly seasoned stew is desired, do not strain.)
Cover and simmer gently 1½ to 2 hours until meat is tender.
Place meat on large platter.
Surround with:
- 12 small boiled potatoes
- 12 small boiled carrots

Keep hot in oven until serving time.
Thicken liquid with:
- 2 tablespoons flour

Pour over meat and vegetables; serve at once.

—*Eric Bergstrand, Wisconsin*

Liver Stew

Serves 4

Cut 1 pound beef liver in small pieces
Dredge in ¼ cup flour
Brown in 3 tablespoons shortening
Combine ½ cup catsup
- 3 cups water
- 2 teaspoons salt

Add to liver.
Bring to boil.
Add 2½ cups raw diced potatoes
- 1½ cups raw diced carrots
- ⅓ cup chopped onion
- 2 cups chopped celery

Simmer slowly for 45 minutes.
Blend 1 tablespoon flour
- 2 tablespoons water

Add to stew and cook until it thickens.
Serve steaming hot.

—*Virginia Blythe, Louisiana*

Italian Beef Stew

Serves 6

Brown ½ cup chopped onion
- 2 cloves garlic, chopped
- ½ cup chopped green pepper, in
- 1 tablespoon butter or margarine

Add 1½ pounds beef, cut into 1-inch cubes, and brown.
Add 4 cups (2 No. 2 cans) tomatoes, undrained
- ½ teaspoon salt
- ⅛ teaspoon pepper

Cook slowly 1½ to 2 hours.
Add 6-ounce package wide noodles, ½ hour before stew is done.
Blend 2 tablespoons flour
- ½ cup water

Add to stew.
Cook to desired thickness.
Serve steaming hot.

—*Mrs. J. A. Jelinek, Nebraska*

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Opens cans easily

Dazey Can Opener $1.95 to $4.95
Model shown No. 80AC All Chrome.

Cuts out entire lid of round, square, or oval cans. Lifts out of bracket or swings flat against wall when not in use. Available in a variety of colors and finishes. *At department, home furnishings, and hardware stores.*

Makers of the world's first and finest wall type can opener.

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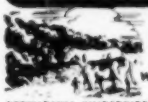

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ITALIAN ACCORDION MFG. CO.
1500 Cottage Grove Ave., Dept. SF-1, Chicago 19, Ill.

New in homemaking

[*From page 30*]

New work apron with three watertight pockets. Handy for carrying water to job in one pocket, soap, drying cloths in the others. Special spillproof design is grand for washing windows and woodwork. Fine for carrying clothespins, too! Deter-

gents, abrasives won't hurt apron. In stores. Postpaid, $1.50, from *Humphrey-Callander, Inc., 618 W. Adams St., Clinton, Illinois.*

Baby auto-bed and -seat has water-repellent twill body with built-in mattress. Converts from bed to seat, has safety head and side bumpers. Guaranteed to fit every car, either front or back

seat. Travel bed also has legs, can be used at home. In department, hardware stores, $8.95.—*Bunny Bear Inc., 210 Broadway, Everett 49, Massachusetts.*

Latest thing in flowerpots is Coral Crown Ware. These pots are handmade from white coral and patterned after the crowns of mythical Danish kings. The semiporous coral stores excess moisture,

regulates soil humidity, and lets the roots breathe, thus avoiding "sour soil" and yellow leaves from overwatering. Comes in many styles. Found in department stores, gift and florist shops.—*S. P. Skinner Co., Inc., 225 Fifth Ave., New York 10, New York.*

Winner of 174 Cooking Awards

Prize cook prefers handy Dry Yeast

With her husband's help, Mrs. Edward Sauvey of West Allis, Wisconsin, sorts and arranges the 174 ribbons she has won in cooking contests. All of them were awarded at the Wisconsin State Fair over a period of nine years . . . and they include forty-two *first-prize* ribbons. That shows what an expert Mrs. Sauvey must be!

And like expert cooks all over the country, she swears by Fleischmann's Active Dry Yeast. "It's the easiest yeast ever," says Mrs. Sauvey. "And it's always right there when I need it—stays fresh and active for months."

What could be more satisfying, more delicious than goodies made with yeast! They're so wholesome and nourishing for your family, too. When you bake at home, use yeast. And be sure to use the best—Fleischmann's Active Dry Yeast. You can depend on it for good results always! And this grand dry yeast is so easy to use . . . dissolves in a jiffy and rises so *fast*. Get a supply of Fleischmann's Active Dry Yeast today.

Now Many Wear
FALSE TEETH
With More Comfort

FASTEETH, a pleasant **alkaline** (non-acid) powder, holds false teeth more firmly. To eat and talk in more comfort, just sprinkle a little FASTEETH on your plates. No gummy, gooey, pasty taste or feeling. Checks "plate odor" (denture breath). Get FASTEETH at any drug store.

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On thousands of farms, beef and dairy cattle, sheep and hogs are kept dry and comfortable through winter months by all-steel, wind-resistant Quonsets.

Quonsets offer farm operators more, though, than safety and durability because they are multi-purpose buildings. They're designed for machinery and grain storage, as well as animal housing—engineered to step up farm production, cut time and drudgery to a minimum. The Quonset is a real working tool—more important in these days of increased livestock production and less manpower than ever before.

CONTENTED COWS IN SUB-ZERO WEATHER. Louis Geronime, Rosemount, Minn. says: "Despite temperatures varying from 95° above to 30° below, our herd is always comfortable in a Quonset."

SHEEP HOUSING PROBLEM SOLVED. In this Quonset 24, Charles Fishel of Belle Fourche, S. D., sheltered 150 ewes during the icy winter months and the lambing season.

QUONSET 32

QUONSET 40

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Laughing

The hostess was entertaining the Farm Bureau women at an afternoon tea. All preparations made, she took a little nap to be rested for the occasion. The tea, however, proceeded strangely. Her guests entered without ringing the doorbell, greeted her in low whispers, and treated her with extreme caution. All seemed ill at ease.

Finally, one woman brought the matter out into the open. They had found a note pinned to the door which the hostess had intended for her teen-age boys to keep them from disturbing her nap. The note read: "The door is unlocked. For goodness' sake, come in quietly. If you must talk to each other, just whisper. And don't ask me for anything!"

One morning a particularly dapper man was sweating out the coming of a train which was long overdue for even the

• • • • • • • • • • • • • • • • • • •

The Error of Our Ways

(Calls From the News Columns)

Those Clever Photographers

Your portrait in beautiful, natural pastels etched to harmonize with your interior.—*Lincoln (Nebraska) Evening Journal.*

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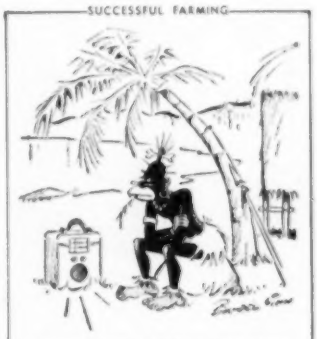
For Rent: tree rooms, attractive with private entrance.—*Wichita (Kansas) Eagle.*

Where Do We Get the Posts?

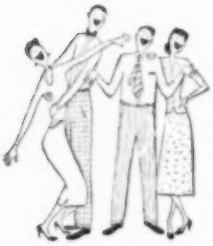
Good postholes for sale, any length or size.—*Topeka (Kansas) Daily Capital.*

SUCCESSFUL FARMING



". . . and now, friends, a word about your complexion! . . ."

at Life



erratic service on that dinky railroad. After considerable prancing up and down the platform, he stalked in and demanded of the ticket agent: "Do you suppose that train will get here before the spring thaw sets in?"

The agent strolled to the platform, eased his spectacles a notch higher on an unworried brow, and peered solemnly down the track. "Ought to be in any time," he drawled. "Here comes the conductor's dog around the bend now."

The bright boy was trying hard to write a perfect exam, and was getting along fine until the following question came along:

State the number of tons of iron ore shipped out of the United States in any given year.

Desperately, he wrote—"2000 B.C.—none."

• • • • • • • • • • • • • • • • • •

Blame It on (Y)eggs

The F.B.I. was called on to investigate the theft of 14 cartons of hen's shoes which had disappeared from an interstate truck.—*New York State paper.*

Neat Trick

The new sewing machine hummed merrily as it ran up a new dress.—*Omaha (Nebraska) Journal-Stockman.*

Dear Beauty Expert:

Miss Sage: I am 16, weigh 160 pounds, and am five inches tall. How much overweight am I?—*Hutchinson (Kansas) News-Herald.*

"Oh Turkel, I'd like a word with you."

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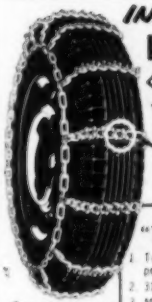

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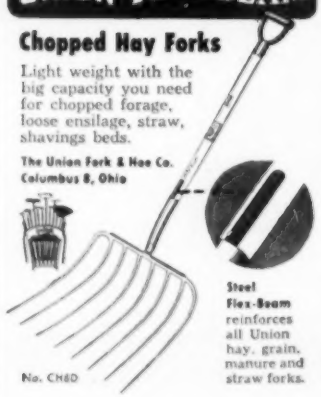

Steel Flex-Beam reinforces all Union hay, grain, manure and straw forks.

No. CH6D

This will save you a cow

[*From page 36*]

eliminating wide variations. At the same time, foul air was forced out and fresh air drawn into the barn. Fifty degrees seems to be an ideal barn temperature for cattle.

However, a constant temperature and adequate ventilation may not be enough to prevent troubles, especially in calf barns. As concrete is a good conductor of cold, outer-wall sides of pens often become frosty during the winter. Calves have a habit of lying down close to these walls. Once chilled, calves often come down with pneumonia. The same thing can happen when bedding is scanty and calves must lie on bare cement floors.

Lack of bedding can cause a different kind of trouble for cows. Mastitis appeared rather suddenly in a herd which, with a single exception, was well managed. The animals had little or no bedding because a fire had destroyed the strawstack. Mastitis was believed due to exposing the udders to the bare concrete. The owner eventually decided bedding was cheaper than the disease.

Still, I have seen mastitis during the winter when the lack of bedding wasn't the cause. Once it was caused by a high doorsill on which the cows banged their udders every time they entered or left the barn. On other farms, cows bump their udders on the sharp edge of deep gutters when being turned from the stanchions. Also, slippery floors have caused falls and udder bruises which eventually developed into mastitis.

The commonest cause of udder trouble has always been stalls which are too short or too narrow. In short stalls, injuries result when the udders of reclining cows drape over filthy gutter edges. In narrow stalls, teats and udders often are trampled on by neighboring cows.

Another kind of trouble frequently is caused by eating poor-quality feed. Sometimes it's due to frozen or moldy silage. At other times, it's dusty hay, overripe timothy, or fibrous cornstalks. I recently saw some animals that sickened after eating badly muddied soybeans which were put up during a rainy spell.

Trouble also can start even when good rations are fed. A recent case involved some animals owned by a man who did considerable custom work. During a spell of corn shredding, his feeding was irregular and the cattle became exceptionally hungry between feedings. As a result, they overate and became sick on one occasion.

In another instance, trouble followed an abrupt change in the grain ration. And I have known upsets to be caused by a change from clover to alfalfa, or from first-cutting to second-cutting hay.

Overfeeding probably is the most common cause of feeding troubles. This is especially true of newly fresh cows. Too often owners try to hurry these animals into full production. Or, it can happen if animals are being "crowded" for records.

Sometimes animals are given proper amounts of good feed at regular intervals, but still insist on eating unpalatable materials. This usually is caused by an abnormal craving for something they aren't getting in their regular rations. Occasionally dirt or filthy bedding is eaten because of a need for salt. A small amount of salt, mixed with the grain ration,

simply isn't enough. On several occasions, I have removed bones from cows' mouths and throats. The animals were chewing on them in search of missing calcium and phosphorus.

One puzzled owner told me his cows were chewing on wood. Two of the animals were confined to the barn after they started tearing the weatherstripping off his buildings. A lack of trace minerals, such as cobalt and iron, evidently was involved. The animals gave up eating wood when a trace-mineral mixture was provided. A similar story involved cattle which craved axle grease, licking at wagon hubs and machinery oil cups.

Lack of water is also a common cause of trouble in winter. When cows are watered at a tank or stream, the water is often so cold it hurts their teeth and discourages drinking. Even when the water is warmed with a heater, wind or bad weather may make the animals so miserable that they spend little time at a tank.

Water shortages can also develop when drinking cups are used. Individual cups often become clogged. I once knew of an entire herd which became sick after being cut off from water by an unnoticed failure of an "automatic" pump.

Newly purchased animals are a common cause of trouble all seasons of the year. Too often they are brought home and turned in with the rest of the herd. Then, later, they are found to be carriers of contagious disease. I recently saw a disastrous outbreak of shipping fever which started from a purchased cow.

Time after time, outbreaks of Bang's disease have followed the importation of animals with "clean" test cards. This is no reflection on the test, as it shows up infected animals with a high degree of accuracy. However, it doesn't show exposed animals in the "coming-down" stage.

A final cause of wintertime cattle troubles is suggested by a visit I once made to a farm. Several troubles were active in this herd, all at the same time. Some cows hadn't been coming in heat;

> **Always listen to the other fellow's troubles so you can tell him how much worse yours are.**
>
> —*Herbert V. Prochnow*

none was milking properly. Some were severely lame; others were suffering from chronic indigestion. All the cows freshened with severely congested udders which yielded bloody milk for variable periods.

The one cause of these assorted troubles was lack of exercise. For one reason or another, the animals hadn't been outside the barn for over two months. It's well known that cattle are healthier if they get a little exercise each day—even though limited to a few minutes in bad weather.

As you can see from this article, there are several things you dairymen can do to keep your herds healthy during the winter. With the price of dairy-herd replacements near an all-time high, it's doubly important that every precaution be taken to keep your herd in tiptop condition. Just a little more effort at this time of year may add several years to a cow's productive life. The extra milk from your cows will more than pay you for a good job of herd management. END

CLEANS DAIRY EQUIPMENT TWICE AS FAST AS SOAP POWDERS ... SAVES UP TO ½ THE COST in hardest water!

JOY Procter & Gamble's Miracle Concentrated Liquid Sudsmaker!

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Already *dissolved*—gives *instant* suds! . . . No caking as with packaged soaps! . . . No mess when you splash, no more soggy soap cartons to fall apart! No spilled powders to clean up afterwards! . . . No waste from guesswork, because every drop is measured accurately!

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CLEAN DAIRY EQUIPMENT THE JOY WAY!

Cleaning Milking Machines—After each milking, flush unit with 1 pail of hot Joy solution. Use 2 capfuls of Joy to a pail of water.

When all Joy solution is drawn into milk pail, remove rubber seal from pail head and wash seal and pail head in suds with a soft bottle brush. Then brush outside of unit with Joy suds. Shake solution around inside milk pail to complete washing; then empty pail.

Reassemble unit and flush-rinse with very hot water. Then hang milk pail, pail head, and teat cups up to dry. Just before next milking, flush out milker with clear, hot water.

Cleaning Cans, Pails, Strainers—wash in hot Joy solution with soft brush. Use 1-2 capfuls of Joy to a pail of water.

Rinse with very hot water, allow to drain dry. Everything will be spotlessly clean.

Remember, too! JOY MAKES YOUR DISHES GO FROM GREASE TO SHINE IN HALF THE TIME!

Wardrobe extras

Is January your "bottom of the barrel" month? Tired of all your winter-weather clothing? Then these styles were designed for you—and careful planning can make one new item serve several of your outfits

5902

5984

Changeable skirt—5902. Here's a skirt that may be worn slim (right, above), or it readily takes on the popular full look with a tie-on apron (of matching or contrasting material) added. The apron is an "extra" that goes handsomely with any straight skirt. With a jeweled sweater or blouse, these skirt fashions make real dress-up outfits.

Jackets—5984. Boxed or fitted, jackets are wardrobe expanders. The fitted jacket, of corduroy or wool, is smart for casual wear; made of velvet or faille, it's a companion for dress-up skirts. The boxed style fairly begs to be made of poodle cloth. It's designed to be worn with trim flannel or wool skirts, has fashionable stand-up collar, sextet of buttons. Bright colors are good for both jackets.

More on page 84

Home planning HELP for you!

If you're decorating, building, or remodeling your home—here's personal help for you at *no* obligation. Visit one of these stores cooperating with *Successful Farming* Home Planning Service.

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Iowa

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Get this handy Jergens Lotion Dispenser....it's FREE* folks!

Hello everybody, this is Kate Smith. Winter's here, but *you* won't have to worry about chapped hands if you rush, *right now*, and get the FREE dispenser which comes—for a very limited time—with the dollar-size Jergens Lotion.

Slip it into the bottle in place of the cap. Then tap . . . tap . . . out comes enough Jergens Lotion to smooth your hands—after dishwashing, housework. It's so handy, folks'll be grabbing it up, so get yours before this offer closes . . .

Just buy the dollar-size Jergens Lotion in the special yellow and black carton. You'll pay only 98¢, plus tax, and get the dispenser at *no extra cost!* Isn't that wonderful? Watch my afternoon show on NBC-TV and see this dispenser in action!

*Use Jergens Lotion for two weeks. If not delighted with it, mail it back to The Andrew Jergens Company, Cincinnati 14, Ohio, and your full purchase price will be refunded. Keep the dispenser as your free gift.

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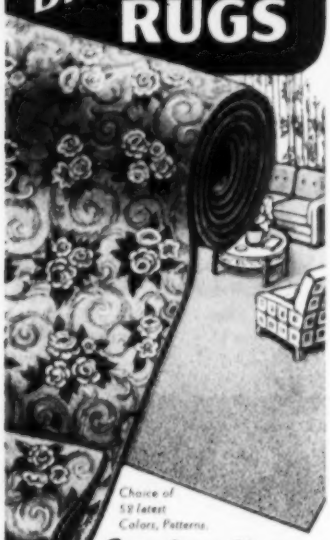

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Wardrobe extras

[*From page 82*]

Novelty flowers

Accessories—5975. The pattern contains six ideas to add personality touches to your clothing. Shown above are the pouf scarf to be done in muted taffeta accented with dark and striped petals, and the velvet collar with tiny flowers that dramatize its novelty circle ends. The pattern also includes a bow collar, pointed collar with tab closing, Peter Pan collar with buttons, and a shaped circlet cap.

The pattern comes in one size only. *Price is 35 cents.*

Changeable skirt—5992. In size 26 waist, the skirt and apron together of one fabric require $3\frac{1}{2}$ yards of 45-inch material or $2\frac{1}{4}$ yards of 54-inch material. The skirt alone calls for 2 yards of 39- or 42-inch material and $1\frac{1}{8}$ yards of 54-inch material. Apron alone requires $1\frac{1}{2}$ yards of 42-inch material or $1\frac{1}{4}$ yards of 54-inch fabric. All yardage is without nap. Lining for the apron will require $1\frac{1}{2}$ yards of 39-inch fabric; crinoline interlining, $1\frac{7}{8}$ yards of 35-inch material. Pattern comes in sizes 23- to 30-inch waist. *Price is 25 cents.*

Jackets—5984. A size 16 fitted jacket requires $2\frac{1}{8}$ yards of 35-inch material. The boxed style calls for $1\frac{5}{8}$ yards of 54-inch fabric. Both jackets require $1\frac{1}{2}$ yards of 39-inch lining. Pattern comes in sizes 12 to 20. *Price is 35 cents.*

These three Advance Patterns are available from local dealers or you may purchase them direct from Successful Farming by simply filling in the handy coupon below.

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Write for booklet that tells you correct tarp sizes for trucks, machinery, etc. and how you can use tarpaulins to increase farm profits. It's free!

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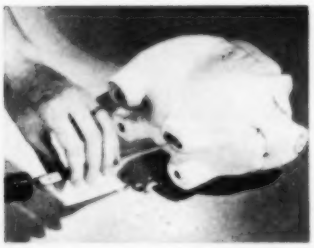
Have the penny and the pig



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4. Smug after his operation, the pig is again ready to accept coins and hold them until they grow to nest-egg numbers. END

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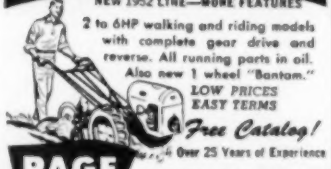

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PAGE
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THE Farm

By Gus Larson

Is short grass more nutritious than long? What use are farmers making of old windmills? Must vegetables be preheated before freezing? If you have a rusty, old windmill that you want to find a practical use for, then let's begin.

Score 5 points for each correct reply. If you score (a) 90 to 105 points—excellent. (b) 75 to 85 points—very good. (c) 50 to 70 points—good. (d) 30 to 45 points—below average. (e) 25 points or below—sorry.

1. The ice-cream sundae (first called Sunday soda) was born in (a) Evanston, Illinois (b) London, England (c) Des Moines, Iowa.

2. Many males who have painfully sore feet may have gout. This disease can be controlled by (a) colchicine and diet (b) rest only (c) heat treatments.

3. Fred Peterson said: "Boars must get exercise or they won't produce any young." Hog raiser Bill Johnson disagrees: "Boars can be lazy and still produce." Who is right? (a) Bill (b) Fred.

4. Odorless cabbages, fuzzless peaches, and stringless celery have recently been developed by (a) U.S.D.A. scientists (b) Russian scientists (c) a South Dakota farmer.

5. The United States Department of Agriculture has developed a new application which heals livestock wounds quickly. It is called (a) Salve 84 (b) E Q 335 (c) Smear 75.

6. Over the countryside old windmills are finding a new use on farms. Are they being used (a) as lookout towers for enemy planes (b) for radio broadcasting (c) as television antennas?

7. Many folks get poison-ivy infection by petting the fur of cats and dogs which have brushed against the plant. This statement is (a) true (b) false.

8. If they will be used in a short time, do vegetables need preheating as part of their preparation for freezing? Would you say (a) yes (b) no?

9. Wheat straw left on the land can mean dollars in your pocket. How much in extra crop yields per acre will it mean? (a) $13 to $26 (b) $2 to $4 (c) $50 to $60.

10. There is an American tree so poisonous that rain water dripping from it can blister your flesh. This tree grows in (a) Florida (b) Michigan (c) Illinois.

11. Dairy cows prefer to eat short grass and shy away from the longer grass. Which grass has the most protein value? (a) short grass (b) long grass.

Quizbox

12. When the wind blows over your barn, the pressure tends to (a) press the roof downward (b) force the roof upward (c) force the roof sideways only.

13. A new yellow tomato makes orange-colored juice. This wilt-resistant tomato is called (a) Sunray (b) Golden Moonray (c) Sunshine.

14. Mrs. Fred Hoyt said: "Don't plant red and black raspberries side by side. They will cross." Mr. Hoyt answers, "Nonsense." Who is right? (a) Mrs. Hoyt (b) Mr. Hoyt.

15. At the end of World War I Americans consumed 24 oranges each per year. How many oranges are consumed (per capita) per year at present? (a) 50 (b) 30 (c) 140.

16. They drop some mighty heavy equipment from Army Air Force planes these days. Can you guess how big? (a) 300-pound motorcycle (b) 2,000-pound Jeep (c) 19,000-pound bulldozer.

17. A housewife, Ruth Allen, said: "A thunderstorm really does something to the taste of milk." Mr. Allen argues: "It is just an old superstition." Who is right? (a) Ruth (b) Mr. Allen.

18. University of Wisconsin scientists recently put a microphone in a cornfield and listened. The test proved (a) corn makes a racket when it grows (b) corn grows silently.

19. A tiny rocket-powered plane set a new altitude mark recently. How high did the plane fly? (a) over 14 miles high (b) about 5 miles high (c) about 3 miles high.

20. It costs $5 more to put 200 pounds on a wormy pig than it does to put the same gain on a noninfected hog. (a) true (b) false.

21. The farrowing house should be just so warm. If too warm, the sow gets warm and restless; if too cold, the pigs chill. What is right? (a) 57 degrees (b) 68 degrees.

Answers on page 88

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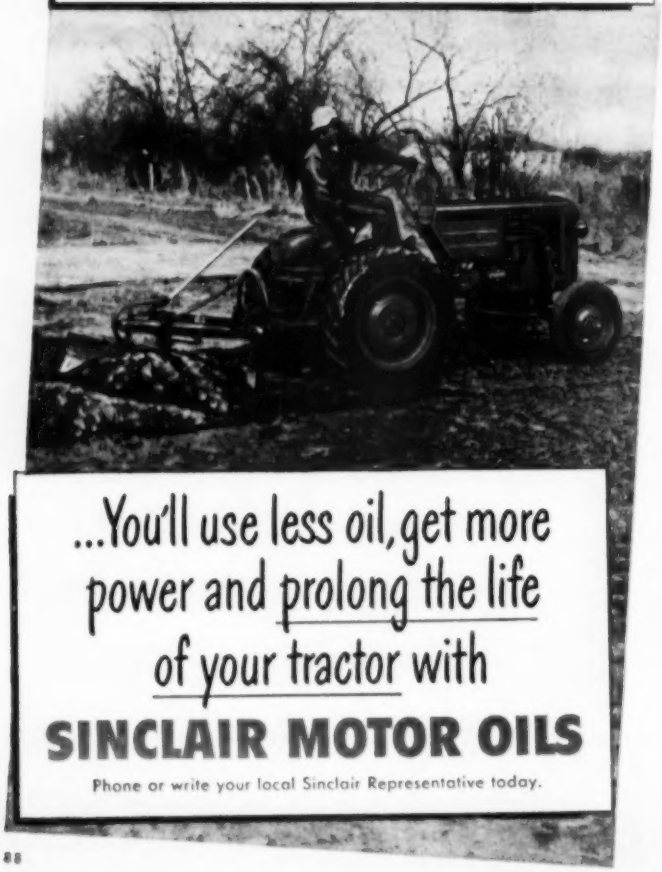

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Answers to farm quizbox

[*From page 86*]

1. (a) is correct. Sundaes were first developed in Evanston, Illinois, because city had law prohibiting sale of ice-cream sodas on Sunday.

2. (a) is correct. Excess uric acid in blood reduced by drug colchicine and low purine diet.

3. (a) is correct. Boars need not exercise to stay in breeding condition.

4. (a) is correct. U.S.D.A. has developed these new vegetables and fruits.

5. (b) is correct. Name of new application for wounds is E.Q. 335.

6. (c) is correct. Old windmills are being used for television antennas.

7. (a) is correct. One can get poison-ivy infection from fur of cats and dogs.

8. (a) is correct. University of Minnesota tests show frozen vegetables quickly develop off-flavors if not preheated.

9. (a) is correct. University of Illinois states the extra crop yields will be worth from $13 to $26 per acre.

10. (a) is correct. Manchineel tree grows in the Everglades of Florida.

11. (a) is correct. Short grass has much more protein than does long grass.

12. (b) is correct. Wind causes vacuum over roof which creates upward pressure from inside barn.

13. (a) is correct. Seed for Sunray now available.

14. (b) is correct. Black and red raspberries will not cross.

15. (c) is correct. Per capita yearly consumption of oranges in the United States is now 140.

16. (c) is correct. Army Air Force has dropped a 19,000-pound bulldozer by parachute.

17. (a) is correct. Scientific research has shown that thunderstorms really do something to milk.

18. (a) is correct. Tests revealed that corn does make a racket when it grows.

19. (a) is correct. Plane flew over 14 miles high and over 1,000 mph.

20. (a) is correct. The University of Illinois reports it takes $5 more and five weeks longer to raise wormy hogs.

21. (a) is correct. Between 50 and 60 degrees (57), says U.S.D.A.'s John Zeller.

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Through our Farm and Home Service Bureau, *Successful Farming* offers you individual, personal-letter help with your individual problems without charge.

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Don't get caught in the labor-pinch. With modern labor-savers—such as the Louden Barn Cleaner, or a Louden-equipped Milking Parlor, you're less dependent on hired help. But when help is needed, you'll find good farm hands prefer to work where Louden equipment is on the job.

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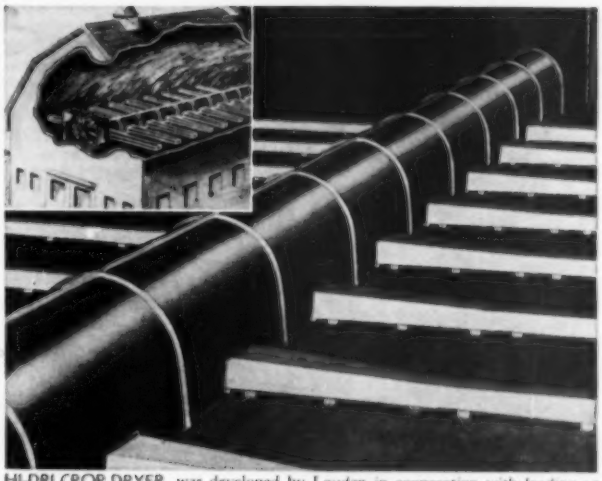
• PROTECT YOUR BARN

Sweating may be good for athletes, but it's bad for barns. Without proper ventilation, doors and windows swell, walls and rafters get mouldy; the building rots and sags, hay spoils. So the smart farmer air-conditions his barn with LOUDEN engineered ventilation—and makes more money.



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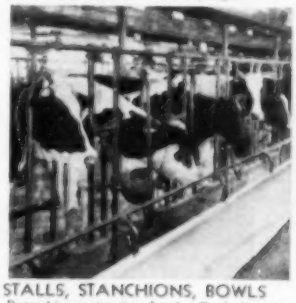

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Grass silage

[*From page 49*]

When is the best time to feed grass silage to cows—before or after milking?

Preventing an undesirable flavor in the milk is the problem here, especially if the silage has a bad odor. G. Bohstedt, of the Wisconsin Animal Husbandry Department, advises feeding grass silage *after* milking to be on the safe side. This gives the animal a chance to "ventilate" her system before the next milking. However, few dairymen are actually following this practice. They're feeding grass silage and grain *before* milking, hay afterwards.

How much grass silage can I feed to my young calves and dairy heifers?

New Jersey experiments show that up to 70 pounds of silage per day can be fed to 2-year-old heifers. Elmer Zimmerman feeds his 2-year-old heifers from 30 to 40 pounds of grass silage plus 8 to 10 pounds of dry hay. He starts feeding his young calves at 6 to 8 weeks of age.

My grass silage has a bad odor. Is there any way to get around the bad smell?

Preservatives will help. However, many farmers are shying away from preservatives as they are too expensive. Getting it in the silo at the right moisture content will help keep down the odors. If you have excessive leaching around the base of your silo, chances are the moisture was rather high. You're bound to get some seepage if your silage runs over 75 percent moisture when it goes in the silo.

My silo had a lot of seepage last fall. Did I lose any feeding value?

Yes, quite a lot. Nutrients are carried away with the seepage. Tests of seepage from grass silage at the University of Illinois disclosed that it contained from 7 to 8 percent dry matter, and that up to $\frac{1}{3}$ of the dry matter was protein.

My livestock didn't seem to go for grass silage. Will they learn to like it?

Probably so, but some time will be needed. Animals resent *any* sudden change in feeding, and their production usually shows it. A gradual shift to grass silage will give your animals a chance to get used to it.

Is there any danger of digestive troubles if I feed moldy silage?

Yes, especially in sheep and hogs. There is less danger with cattle, but moldy silage can easily cause bloat and digestive troubles. Better not take a chance.

Does grass silage provide the necessary vitamins to keep stock healthy?

If properly put up, grass silage is loaded with vitamin A. However, it has very little, if any, vitamin D. For this reason, it is a good idea to feed some sun-cured hay

along with grass silage even though some animals could get along on silage alone. Good legume-grass silage also provides calcium, of which corn silage has very little.

If I use a preservative, will it make any difference in my grain feeding?

Yes, especially if a corn-and-cob preservative is used. Properly made, grass silage, using corn-and-cob meal, contains about 1 pound of grain in each 10 pounds of silage. For this reason, it is easy to overfeed corn. When figuring your grain ration, consider the amount of grain in the grass silage. If you don't, you're likely to run into digestive trouble.

Is there any danger from feeding frozen silage to my stock?

The biggest problem with frozen silage is mechanical. You can feed it, but it should either be thawed out or well mixed with unfrozen silage. Elmer Zimmerman gets around the frozen-silage problem by keeping the silage low around the edge of the silo when the weather is mild. Then, when the temperature drops, he feeds the center of the silo. Other dairymen such as Craig Beane and Paul Montavon find that grass silage doesn't freeze as badly as corn silage. However, the amount of freezing depends on the moisture content of the hay when it goes into the silo. The higher the moisture, the worse the freezing.

Is there any chance of feeding grass silage to animals the year round?

Many dairymen, such as Elmer Zimmerman, feed it 12 months a year. Others, like Paul Montavon, feed it through the early pasture months. Montavon says it helps prevent bloat. Edward Van Bogaert, cattle feeder, starts giving his animals some grass silage about the middle of July to supplement his pasture.

I used a preservative. Will it pay me, or could I have done without it?

You probably got a better-smelling silage, but there is more and more evidence that a preservative is not necessary. Here are three good reasons why it's losing in popularity: (1) Preservatives are sometimes hard to find; (2) They're too expensive—running from $1 to $2.50 per ton, depending on the kind you use; and (3) Extra labor is involved. Elmer Zimmerman used a molasses preservative until 1947. He has found since that a preservative isn't necessary to get good silage. Paul Montavon gets around the extra cost by using corn as a preservative, figuring he would use the corn anyway.

How much grass silage must I feed off top of silo to prevent spoiling?

This will depend on how well the silage is cured. Well-cured grass silage will keep from 3 to 4 days without your removing any. Warm silage, not well cured, must be removed more often. Paul Montavon has found that grass silage will keep a day or so longer than corn silage without his removing a top layer. **END**

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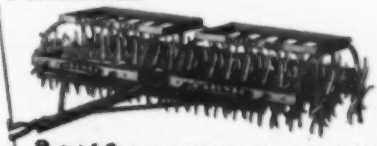

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Portable Power Take-off and Stationary Models

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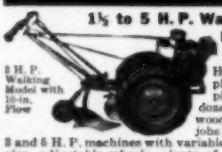
1½ to 5 H. P. Walking Models Do Everything In Gardening



2 H. P. Walking Model with 10-in. Plow

Handle 6, 7, 10-inch plows . . . cultivate, plant, mow, bull-dose, cut trees, saw wood, do many other jobs fast and easy. 1½, 3 and 5 H. P. machines with variable speed transmission, adjustable wheels, plenty of plant clearance. Power turn models and power take-off attachments available.

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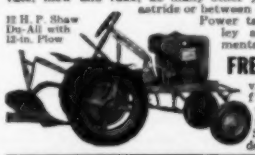
Also ideal for second tractor on large acreage. 5, 8, 12 H. P. models plow 4 to 8 acres daily, plant, cultivate, mow and rake, do many other jobs. Works astride or between 42-in. rows. Power take-off pulley and attachments available.



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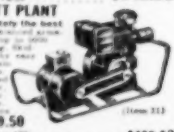

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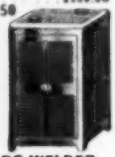

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EXTENSION CORD

(Item 36) 40 ft. heavy duty, made of specially insulated No. 14 3 conductor wire. So tough that you can drive over it and yet remain fully flexible and easy to handle. Resists oil, grease or water. Extends electricity up to 40 ft. without voltage drop. Use indoors or on. Complete with heavy rubber plug and outlet. Wt. 2½ lbs. Usually $4.50. Special, 40 ft. **$1.99**; Comb. 2-40 ft. and 1-20 ft. (total 100 ft.) . . . **$4.95**; 100 ft. with plug . . . **$4.95**

TRENCH-LAY WIRE. (Item 31) Anaconda No. 16—2 cond. for buried service to barns, outdoor lights, etc. Absolutely impervious to oil and water. Wt. 30 lbs. per 100 ft. Special price 100 ft. 16c per ft.; 500 ft. . 17c per ft.; 1000 ft. . 19c per ft.; 250 ft. . 18c per ft.; 500 ft. . 17c per ft.

34 pc. SOCKET SET

(Item 1) Highest quality, non-breakable sockets made by Plomb Mfg. Co. etc. Complete range of 12 sockets from ¼ in. thru ¾ in. in ¼ in. drive and 7/16 in. thru 1 1/16 in. in ½ in. drive. 2 special handles, 1 ex. breakbar, 2 slide heads, double hole in. 1 handle, reversible ratchet, adaptor kit, 2 pad wrenches and metal tool box. For professional mechanics who want the best. Wt. 14 lbs. Easily worth $35.00 while they last **$16.95**

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(Item 38) Immersion type 115 v. AC—1250 watts. Convert your present tank to modern automatic hot water heater. Long life Westinghouse or Chromalox element screws into std. 1½ in. opening in tank. Adjustable Thermostat keeps water at desired temp. Can also be used in washing machine or tub.

Wt. 8 lbs. Heater element and thermostat. Regular's $49.50. Special . . . **$14.95**

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(Item 32) Stainless steel tank—capacity 20 cu. in. or 600 lbs. pressure, complete with hose and shutoff valve, press. gauge, inflatable air hose, tire chuck. Fill at any service station. Carry air for tire inflation, blowing out tires, spray painting, hose-blowing, etc. Use emergency pneumatic jack, too. Wt. 10 lbs. Worth $20.00. Our price . . . **$8.95**

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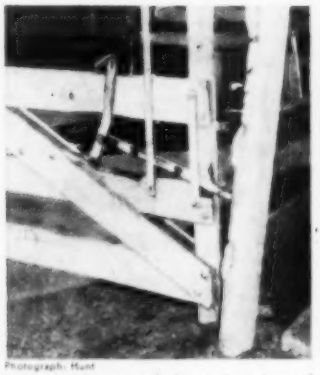
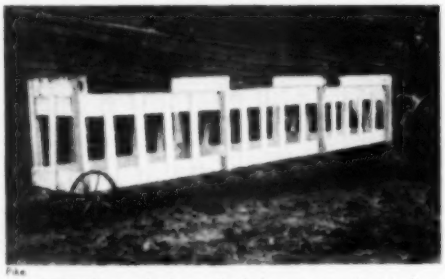


Photograph: Hunt

Gate catch was made from a few pieces of scrap metal by Bill Sumer, North Dakota farmer. When the handle is moved forward, the catch rests behind a post at the end of the gate and serves as a strong, safe lock

Mercer

Bale elevator is an ordinary grain elevator fitted with wooden roller at the top end. The roller prevents the bales from catching on end of elevator. It was built by Merlin Gasser, Dane County, Wisconsin

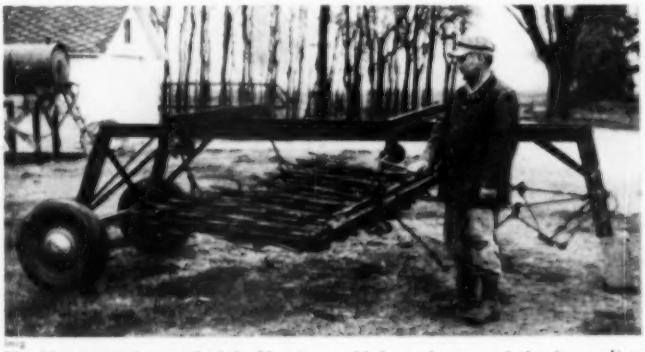


Pike

Sheep bunk on wheels was built by vocational-agriculture students at Whiting, Iowa. The top rail has a pair of wheels bolted to one end, and a drawbar pivot pin welded to the other end. After the bunk has been moved to the sheepfot, it is turned upside down, and is then ready for hay feeding

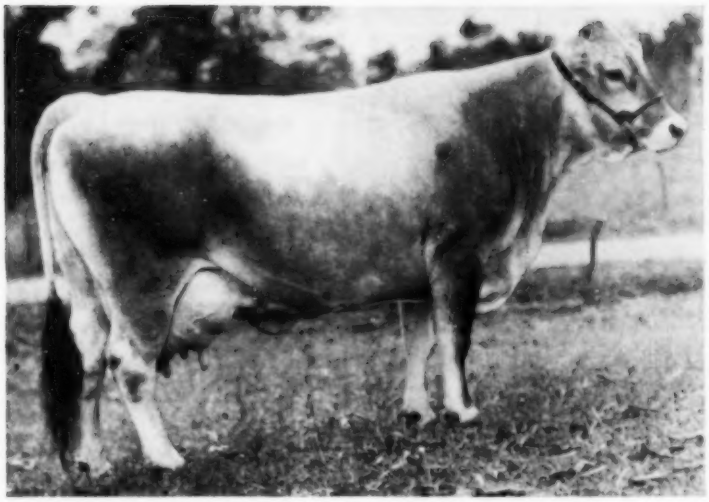
Sibley

Fork is fastened behind wheel to fill track and prevent water erosion on hills. Built by K. Young of Winchester, California



Imig

Machinery trailer was built by Marvin Hart and Ray Eisenmann, Iroquois County, Illinois, farmers. The welded frame was made from 4-inch beams and scrap-iron braces. A front axle from an old car was welded on the rear of the frame. Four ratchets, four lengths of heavy chain, and an old automobile crank are used to lift implements for moving. A tractor is used to pull this homemade implement carrier



Daisy of Clover Lane, owned by Mr. and Mrs. Samuel E. Behm, Winchester, Ohio, all-breed milk production champion for the state of Ohio, on twice-a-day milking. (Record completed January 16, 1951.)

Ohio Champion is Pillsbury-fed

—SETS ALL-TIME MILK RECORD

Produces 24,006 lbs. of milk, 1021.6 lbs. of butterfat on twice-a-day milking

A new all-time DHIA record of production for all breeds on twice-a-day milking, for the state of Ohio, was set by Daisy of Clover Lane, when she finished her 365-day test on the farm of her owners, Mr. and Mrs. Samuel E. Behm, Winchester, Ohio, last January.

This splendid Brown Swiss is a member of Behms' 27-cow herd, which has had Pillsbury Dairy Concentrates as a part of the ration since 1942.

The herd is in charge of Mrs. Behm, graduate veterinarian and well known as a herdsman and in the show ring. Regarding Pillsbury Dairy Feeds, Mrs. Behm says: "The consistently good results I get from my cows speak for themselves."

HOW WAS SHE FED?

During her test, Daisy of Clover Lane received good-quality roughage and Pillsbury's Best 32% Dairy Concentrate, with corn, oats and bran.

Daisy is now about halfway through another test and is receiving the same ration.

BREEDING

Daisy of Clover Lane was purchased by Mr. and Mrs. Behm as a 3-year-old. She is a daughter of Jake of Clover Lane; her dam, Dick's Louise.

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STOP WASTING FEED!

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NOW . . . CUT HAY CROPS *FASTER*

. . . Keep your sickle bars sharper

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REG. U. S. PAT. OFF.

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Grinder is drilled for mounting on wall or bench. Available with electric motor . . . or can be used with gasoline engine for field work.

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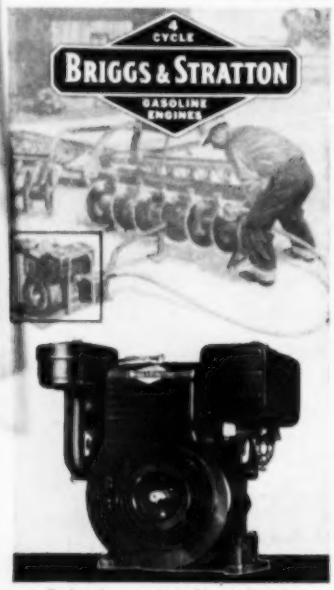

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RED ★ WHITE ★ BLUE ★

3 - 15c Packets, ONLY 10c. 45c Value Red, White & Blue. Gorgeous 5 in. Blooms 2½ in. thick, on stately stems. Send 10c for these lovely asters and will include **Big Seed, Plant & Nursery Catalog. FREE**

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KILL Corn Borers

By PACKING Ground Firmly After Plowing Stalks Under

New

WESTERN SPROCKET PACKER & MULCHER

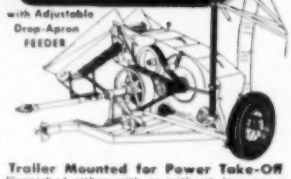
It pulverizes, mulches and firms soil. IT DOES NOT UNCOVER CORN STALKS that have been plowed under, therefore corn borers in these stalks are smothered in the ground. Saves time, labor and horsepower preparing ideal seedbed. Leaves surface mulch without grooves, which greatly helps to prevent washing. This seedbed conserves moisture, saves seed because more of the seeds grow; and helps to increase yields of all crops. Great also for rolling in clover and grass seed and breaking crust on winter wheat in spring. Find out why it does the work so much better, easier and faster. Be sure you get the genuine WESTERN. Write for full information.

ALSO . . . . .

New BEAR CAT

Grain and Roughage Mill also Ensilage Cutter

with Adjustable Drop-Apron FEEDER



Trailer Mounted for Power Take-Off

Furnished either with or without drop apron feeder and power take-off with trailer as shown. Grinds any feed, green, wet, or dry, snapped or ear corn, roughage bundles or baled flakes, with ordinary farm tractor, — and no monkey business. Has both cutter knives and heavy swing hammers.

Get full information on this real honest-to-goodness grinding outfit. Four sizes available. Write

Western Land Roller Co., Dept. 814
Hastings, Nebraska—Manufacturers

The PLAY

Where Playfellows

The greedy squirrels

Tippy and Skippy were two pretty little red squirrels. Their home was high up in the hollow of a tall, old oak on the edge of the Big Woods. They each had a nice grass mattress for a bed. And Mother Squirrel brought them all sorts of good things to eat— nuts and berries and seeds.

By and by Tippy and Skippy grew large enough to scamper up and down the trunk of the tree. Soon they were playing tag with neighboring squirrels, and finally the day came when Mother Squirrel let them hunt their own food in the Big Woods.

Finding food in the Big Woods was no problem at all. But sad to relate, Tippy and Skippy were so greedy they thought of nothing else. All day long they gathered nuts and acorns and hid them in their own secret cupboards. Tippy's store was under the roots of a beech tree; Skippy's treasures were under a shady pine. Each little squirrel was unhappy because one was afraid he'd have less than the other.

One day Tippy's bright, black eyes spied a large, fat acorn. Off he ran toward it fast as he could go. Skippy saw the acorn, too, and ran to grab it. He reached it just a whisker ahead of Tippy and pounced on it with his little paws.

"That acorn is *mine!*" shouted Tippy. "I saw it first."

"It's no such thing. I saw it too—and I beat you to it," Skippy cried. "I'm going to keep it for myself!" And he popped it into his mouth and ran toward his shady pine with Tippy in hot pursuit.

"What's all the trouble?" called Jimmy Jay, who was passing by just then.

"He took my acorn," Tippy cried. "I saw it first, but Skippy ran and pushed me out of the way and took it."

"I did not," Skippy started to say, but the minute he opened his mouth, out rolled the fat, brown acorn, and before he could pick it up again, Jimmy Jay snatched it into his sharp beak and flew away.

"Stop thief! Stop thief!" Tippy and Skippy cried together. But Jimmy did not stop. He flew clear to the other side of the Big Woods and hid it for himself.

When the two little squirrels ran home to tell their mother, Mother Squirrel laughed gently and said, "It serves you both right for being so greedy. Jimmy Jay has taught you a lesson. Help each other and share your food with your little forest friends. Then no one will think it's fun to steal your acorns."

"Dicky John"

My baby brother, Dicky John,
Does all the things I do.
And when I start to read a book
He wants to read it, too.

He says, "Goo, doo, da..goo, da, da."
He's really quite a clown.
I couldn't read a book the way
He reads it . . . . UPSIDE DOWN!

—*Evelyn Kust*

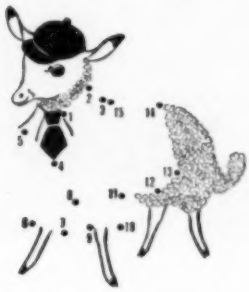
HOUSE

meet every month

Corn Crop. Can you plant a SEED and get some CORN? Beginning with the word SEED, change one letter at a time and form a new word each time until you reach the word CORN. The definitions beside each blank will give a clue to the changes.

	S E E D
Remit	_ _ _ _
Fine gravel	_ _ _ _
Magic stick	_ _ _ _
Hospital section	_ _ _ _
Greeting note	_ _ _ _
Rope	_ _ _ _
	C O R N

Solution: You should have the following words in the blanks in this order: SEED, SEND, SAND, WAND, WARD, CARD, CORD, CORN.



Dress Larry Lamb. Follow the dots with a pencil. Connect Dot 1 with 2, then Dot 2 with 3, and so on, in order, to end up on Dot 15.

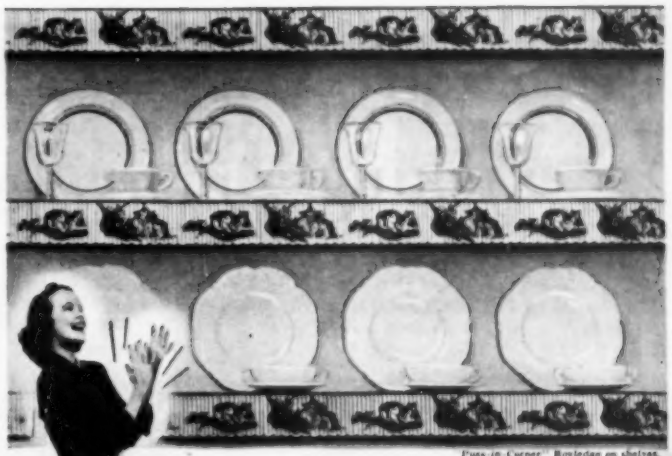
Cup-Catch. You can make this tricky game yourself with a tin cup, a piece of strong string about 3 feet long, and a rubber ball about an inch in diameter. Punch two holes in the side of the cup opposite the handle. Punch them about ¼ inch apart. Now, thread one end of the long string through these holes and tie it tightly. On the other end of the string, fasten a rubber ball (with a darning needle you can run the string through the center of the ball).

Now toss the ball out of the cup and try to catch it again in the cup. A game consists of 10 tries. Each catch you make in the cup gives you 10 points; 100 points is a perfect score. See if you can make it.

The London Bridge of this game bridges the gap between the ends of six five-letter words. See if you can complete each word according to the definition on the left.

Part of your arm	_ L B _ _
A place to buy things	_ _ O R _
What you cut food with	_ N I _ _
Your father	_ _ D D _
A little pup	_ O G _ _
Something very sweet	_ _ N E _

Answers: 1. elBow 2. stORe 3. kNIfe 4. daDDy 5. dOGgy 6. hoNEy



"Fuss-in-Corner" Royledge on shelves.

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For only pennies, you can make your kitchen "sing" with color by decorating all shelves with gay, gorgeous Royledge Shelving! A color-bright kitchen is so much nicer to live in—and wins compliments. New "Plasti-Chrome" Royledge costs only about a penny a foot. See new patterns at 5 & 10's, Supermarkets, Housefurnishing, Naborhood, Dept. Stores.

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Shelving Paper & Edging all-in-one. 9 ft. & 24 ft. pkgs.

New ADHESIVE Edging for steel or wood shelves

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$4.95 less battery

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2-LITE ELECTRIC LANTERN

HELPFUL SUGGESTIONS for solving all types of farm problems are found in each issue of *Successful Farming*.

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Keep your costly farm equipment in top shape—Snap-ons are the handiest time-and-money savers you could have on the farm! Highest quality professional tools you'll be proud to own. And they LAST . . . pay for themselves over and over again! Start building your own set with basic units—add others any time. Never sold in stores—direct from factory to you. Write today for your free copy of the Snap-on catalog.

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Snap-on Tools

MEND as you IRON

WITHOUT NEEDLE and THREAD

NEW PLASTIC TAPE! Mends without sewing, as you iron! Quickly, easily, mends holes, tears, snags, worn spots in shirts, blouses, coats, dresses, trousers, underwear, hosiery, bedsheets, tablecloths, etc. Mends as smooth and neat. No lumps. Will not come off; stands washing, dry-cleaning. Save many hours of tedious mending & darning. Save money! Guide line with

SAMPLES for AGENTS Complete ready-to-use outfits to those who take orders. Beef sales at home or practically all the time. Spend no money. Get your sales outfit now.

KRISTEE CO., Dept. 171, Akron 8, Ohio

Gives Protective Warmth

FOR ACHING CHEST COLDS!

to relieve coughs — sore muscles

To bring fast, long-lasting relief, rub on Musterole. It instantly creates a wonderful sensation of *protective warmth* on chest, throat and back.

Musterole not only promptly relieves coughing but also helps break up congestion in upper bronchial tubes, nose and throat, bringing amazing relief! Any drugstore.

MUSTEROLE

YOUTH GOES ON RECORD

Picking a marriage partner

Photograph: Fletcher

Panel members from left to right: Janet Mather, Fred Battles, Richard Sorem, Jack Heinz, Margery Baldus, Jim Christy. Not pictured: Winton Weber, Ross Weuve, Mrs. Jack Heinz. Except for the Heinzes, all members are single

By Henry G. Felsen

It is a matter of record that fewer farm than city marriages end in divorce. One reason for this is the realistic attitude today's young farm people have toward marriage.

City boys may regard courting as strictly a pleasure. But young farmers know their choice of a wife can mean the difference between success and failure in farming. That knowledge makes for lasting marriages. But it also makes more difficult the task of finding the right girl.

Recently, *Successful Farming* tape-recorded an informal discussion of the Rural Young People's Club at Nevada, Iowa, on this subject of choosing a marriage partner. The members summed up the problem this way:

> Under present conditions it's almost impossible for a young farmer to get on a farm of his own unless he is married.
>
> The young farmer needs the right kind of wife to make a success of his life and work.
>
> Young farm people need organizational or community help—such as the R.Y.P. Club is giving—to meet girls (or boys) in this necessary search for a wife or husband.

What qualities do these young farm folk think a farmer needs and looks for in a wife?

Fred: The most important quality of all is that she be interested in farming. That goes beyond just liking to live on a farm. It means a girl who can be an equal partner, and who can help you make decisions. A city fellow might resent a wife who wanted to know about his business affairs, but on the farm you need someone who knows as much as you do, and who can talk things over with you.

Winton: It might sound unromantic, but the truth is, when you choose a wife to share your farm, you're investing in a business partner. It's hard to draw the line where the farm ends as a place to live and begins as a place of business. The girl you choose to share your life has to share the business end of it, too. So you look for one who can be the kind of wife *and* business partner you need.

Granted that the farmer needs a business-partner wife who will help him plan his program and aid him in making vital decisions, what personal qualities are desired in that wife?

Ross: Similarity of interests is the first thing you look for. In the city, there are more opportunities for a husband and wife to find recreation outside the home, but on the farm you have to spend a great deal of time together. If you find a girl with whom you have a great deal in common, you figure that this is a girl you could be with a long time and not be bored. And you could find things to do together without having to run all over the country to be entertained.

Fred: Right! If you get a husband who likes to play cards in the evening, and a wife who hates cards and wants to go dancing, they aren't going to have a very good time living on the farm. It's all right to go places, but I think it's important to find a girl who can find interesting things to do at home. You can't be running around all the time and work the farm, too.

Jack: Then there's the matter of personality. I've [*Turn to page 98*

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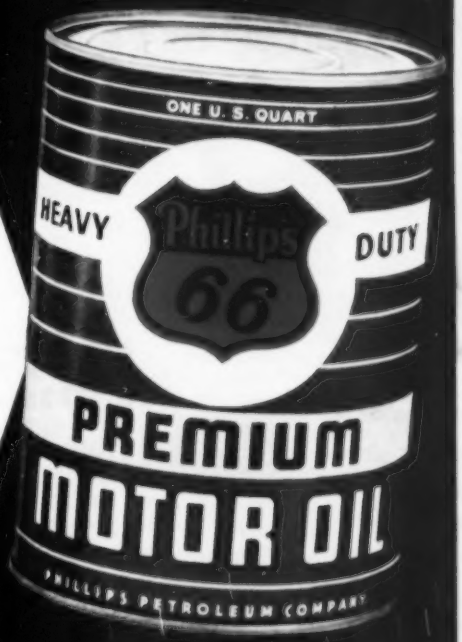

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Marriage partner

[*From page 90*]

found out that it's nice to have an efficient wife. But perhaps the best thing I've found out is that I married a girl who is easy to get along with. Since you depend on one another so much for companionship, that's a big item.

Knowing that he needs a wife to get ahead in farming, that he needs one who combines an interest in the business of farming with a similarity in personal interests, when does the young farmer start looking for a wife, and how does he go about it?

Winton: I'd say you start thinking of girls as possible wives as soon as you start dating—in high school. You know you're going to need a wife, and the right one, and you know when you're out of school you won't have as many chances to meet girls, so you start thinking about them seriously when the town boys are just thinking in terms of casual dating.

Ross: I don't think farm boys do much "casual dating." Marriage is so much a part of our future that we can't help thinking about a girl we date as a possible wife. And when you think you've found the right one, that's all there is to it—if she'll have you.

Richard: That's why a lot of fellows marry young. I start sizing up a girl as soon as I meet her.

Janet: And just how do you size up a girl?

Richard: Well—you know. If she invites you to dinner you get a chance to find out what kind of a cook she is, what her home is like. And that's important.

Margery: You can't tell much from one meal. There are girls who would say they had cooked the meal, but maybe all they did was bring it to the table, and their mothers did the actual cooking.

Richard: Oh, I'd find out. I'd wait until I'd eaten there a couple of times, and not just for company dinner!

Fred: Look at it this way. If a girl is interested enough in a boy to try to make an impression, maybe she could learn to be a good cook. And the fact that she tried to impress him might be a good sign. A girl wouldn't try to impress a fellow in whom she wasn't interested.

Ross: I'll admit a girl who can't cook can learn. But I don't want her to learn on me!

Janet: Speaking about the way boys size up girls, maybe you fellows would be interested to know that girls size you up, too. Usually when we're listening to you brag! I think the first thing a girl notices about a fellow is his grooming. That doesn't mean how sharp his clothes are, but rather neatness and good grooming. The way a fellow keeps his clothes and his car is a pretty good sign of how he'll manage his farm.

Jim: That's all right, but sometimes a clean shirt is just a sign of a hard-working mother in the house.

Janet: After you've been out with a fellow a couple of times, you can tell if he's really neat. Another thing, I think girls are very much aware of how a boy acts toward his family. The way he treats his folks or his brothers and sisters is a pretty good tip-off on how he'll treat his own family.

Winton: The same thing goes for girls. A girl who lets you know she's too good for her family will probably wind up

feeling she's too good for *you*. There's no place in farm living for that. You want a person who is natural, and not full of pretensions—one you feel comfortable with.

Jim: As far as I'm concerned, the biggest problem in this matter of finding a wife is that the boys are staying on the farm and the girls are going to the towns and cities. How are you going to decide which girl you want for a wife if there aren't any girls around?

C. J. Gauger (R.Y.P. Adviser): That's one function of the R.Y.P. We've been accused of running a marriage club, but the fact is, farm young people need the help of organizations such as this and the church to bring them together. Our group is small now, because about 50 young people who met at our meetings have been married. And while that isn't our only function, it is an important part of meeting the needs of our young people.

Winton: And it's important to have such activities near home. We drive down to Des Moines (about 40 miles) to dances once in a while, but we have to go stag, and depend on pickups, and while you do meet some girls that way, it isn't the best way to meet a future wife.

According to the group, some things should be settled before marriage.

Mrs. Heinz: Similarity of religion, for example. You should know exactly where you stand on religious training for your children before you get married.

Margery: The number of children is another point you should agree on before marriage. Personally, I think a farm family should have at least four or five children. Youngsters are more isolated in the country. They need the companionship of brothers and sisters.

Fred: And don't forget children are an economic factor. In town a large family might be a handicap, but on the farm it means more hands. Children can free the adults from a number of little chores, and at the same time begin to learn and like farming. You can do more if you have a good family helping you.

Jack Heinz, who has been married a little over a year, summed up the discussion by putting his finger on the reason farm marriages usually stick:

A city man's job isn't dependent on a wife and family to the extent that a farmer's is. No matter what a farmer does personally, his marriage affects his job—his whole life. And it's that mutual need and dependence that makes for strong ties and happier people. It's good to *need* your family as well as to love it. **END**

Each month Successful Farming will report an actual panel discussion of young people on the knotty questions and problems which confront today's farm youth. If you would like us to lead a discussion at a meeting of your youth group, write and tell us your question. We can't work in all your ideas, but we'll get around to many of them.—Editors.

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2. Liver a la Italienne
3. Liver in Chutney Sauce
4. Spicy Liver Ring
5. Liver Patties
6. Liver With Mushroom Gravy

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Liver With Mushroom Gravy

Serves 4

Dredge **1 pound beef liver** in
2 tablespoons flour
1 teaspoon salt
1/4 teaspoon pepper
Brown in **5 tablespoons shortening**
Top with mixture of:
1 10 1/2-ounce can mushroom soup
1/2 cup milk
Cover and cook for 20 minutes.

—*Mrs. Joe Rudolph, Kansas*

Liver a la Italienne

Serves 6

Add . . . **1 tablespoon salt** to
3 quarts boiling water
Add gradually:
4 ounces (1 cup) macaroni
Boil 8 minutes or until tender.
Drain and rinse under hot water.
Remove membrane from:
1 pound beef liver and cut in 1-inch pieces
Combine **1/4 cup flour**
1 teaspoon salt
1/2 teaspoon pepper
Dredge liver in flour mixture.
Brown liver together with:
1/4 cup chopped onion
1/4 cup chopped celery in
1/4 cup bacon drippings or **shortening**
Add . . . . **2 cups (No. 2 can) tomatoes**
cooked macaroni
Blend together:
2 tablespoons flour
1/4 cup water
Add to mixture to thicken.
Simmer 10 minutes, stirring occasionally, until thoroughly heated.
Serve steaming hot.

[*Turn to page 102*

"MORE THAN A CHEMICAL TREATMENT"-*The Original Genuine*

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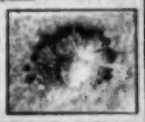

Seed rot organisms destroying unprotected Ladino seed.

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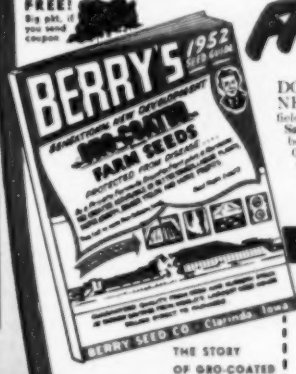

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Eat liver and like it

[*From page 100*]

Savory Liver With Onions

Serves 6

Roll . . . . **2 pounds sliced beef liver** in **flour**
Brown . . . **2 large onions,** sliced
1 cup chopped celery in
6 tablespoons shortening
Remove from skillet.
Brown liver in same skillet.
Pile onion and celery on top of liver.
Dissolve . . **2 beef bouillon cubes** in
1½ cups hot water
Add . . . . . **1 teaspoon curry powder**
4 teaspoons salt
Pour over liver mixture and cover.
Bake at 350° for 30 minutes.

—*Mrs. Tom Neeley, Missouri*

Liver in Chutney Sauce

Serves 4

Wipe . . . . **1½ pounds calf's liver** with a damp cloth
Dredge with a mixture of:
3 tablespoons flour
1 teaspoon salt
¼ teaspoon pepper
Saute in:
5 tablespoons salad oil for about 8 minutes, browning on both sides
Drain on absorbent paper.
Pour out salad oil; pour into skillet:
1 cup sour cream
½ cup chutney
Add . . . . . **salt and pepper** to taste
Simmer until sour cream is thick and smooth and reduced.
Arrange liver on a hot platter and top with sour-cream mixture.

Liver Patties

Makes 6 patties

Cover . . . . **1½ pounds beef liver** with **boiling water**
Simmer for 5 minutes; drain.
Grind and combine with:
½ cup minced onion
2 well-beaten eggs
¾ teaspoon salt
⅛ teaspoon pepper
2 tablespoons flour
Shape into 6 patties.
Wrap . . . . **1 slice of bacon** around each patty
Fasten with a toothpick.
Brown in skillet over low heat.
Garnish with **stuffed olive slice.**

Spicy Liver Ring

Serves 6 to 8

Cover . . . . **1 pound beef liver** with **hot water**
Cover and simmer for 5 minutes.
Put through food grinder, using a fine plate.
Add . . . . . **1 pound pork sausage**
2 tablespoons chili sauce
2 tablespoons horse-radish
1 tablespoon grated onion
2 beaten eggs
2 cups dry bread crumbs
1 cup water
Mix thoroughly.
Fill well-oiled 9-inch ring mold.
Set ring mold in pan of hot water.
Bake at 350° for 1 hour.
Unmold on cooky sheet.
Return to oven 4 to 5 minutes to brown.
Serve with **chili sauce.** END

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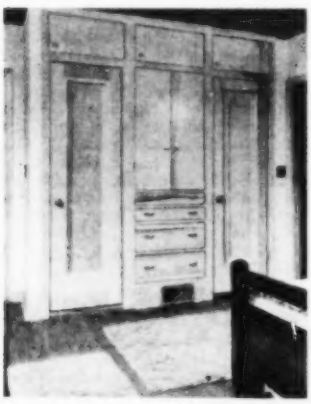
Plan your bedroom storage space to pay off in both efficiency and good looks

Plan a closet like this one that will grow with your children. Here adjustable clothes rack will move up, and shelf height will adjust to meet children's changing needs. Shoe rack beneath helps promote neatness. Folding door is fun for youngsters to close



A wall of storage units in this bedroom makes excellent use of space available. Two closets provide plenty of hanging room for clothing; cabinet shelves are ideal for bedding and linens; the drawers will take care of your folded personal clothing

of FARMERS and FARM MACHINE BUILDERS

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...to FIT THE MACHINE and FIT THE JOB...

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If engines were judged on the same basis as prize livestock, Wisconsin Air-Cooled Engines would be right up there in the blue-ribbon class!

These fine engines have the in-built stamina commonly referred to as "heavy-duty construction", that goes far beyond initial horsepower ratings and clean-cut, compact design. In every type of farm power service within a 3 to 30 H.P. range, WISCONSIN Air-Cooled Engines, because of their dependability, have won top preference both with power-wise farmers and farm machine builders who use them as original equipment on combines, hay balers, rotary tillers, garden tractors, conveyors, forage harvesters, sprayers, hammer mills, pumps, snow blowers and many other machines.

You can't do better, when it comes to selecting dependable climate-proof power, than to specify "WISCONSIN". Write for copy of "Power Magic".

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MILWAUKEE 46, WISCONSIN

Decorating advice. Stores offering **Successful Farming's** home planning service are listed on page 83. Visit store nearest you for help with decorating problems.

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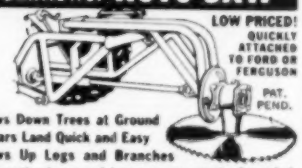

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"CAN I GET a hearing aid without anything in the ear?—without any attachment to the head?—that doesn't need batteries?—without a cord? Can I get an aid I can wear so that NO ONE will know I am hard of hearing?"

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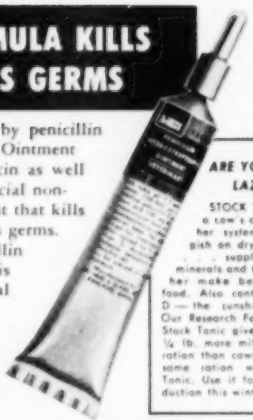

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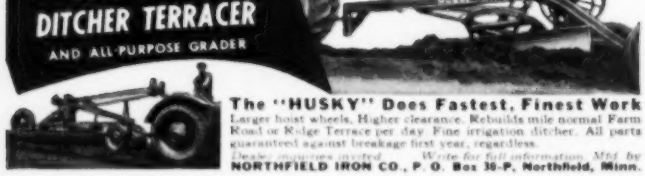

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Dealer inquiries invited. *Write for full information. Mfd. by*

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Livestock

Sells pigs at weaning—saves corn

Running short of corn? Maybe a swine system used by Craig Beane, Jefferson County, Wisconsin, would help you stretch a short grain supply. Rather than feed his pigs out, Beane sells them at 8 weeks of age as feeder pigs for around $15 per head.

Five sows are farrowed every 2 months. Beane keeps the sows for 2 litters and then sells them. His last bunch of sows weighed 400 pounds and sold for $19 per hundredweight. Grain is saved in two ways: (1) No corn is needed to finish the pigs to market weights; and (2) the sows' ration is made up of 50 percent third-cutting alfalfa. The other half is a mixture of corn, oats, and soybean meal.

Uses corncobs for bedding

Corncobs make a good bedding material in feeding pens for Edward Van Bogaert, Kane County, Illinois. (See picture below.) He prefers them to straw

Photograph: Schneider

because they dry up much faster. And the corncobs are firmer from the bottom up. Trucks and tractors can be driven over corncob bedding without the danger of getting stuck.

New outbreaks of anthrax

Anthrax flare-ups have been reported in the Midwest and authorities caution farmers to be on the lookout for further trouble. The American Foundation for Animal Health reported three outbreaks of anthrax in Illinois. Cattle and swine both were infected.

First warning of the acute form of anthrax is when animals die suddenly. In slower-killing types, the animal may show depression, have difficulty in breathing, and go into convulsions. Don't use vaccines of any kind without permission of state livestock sanitary authorities.

Winters gilts on ration high in alfalfa

Bred gilts can be wintered on rations containing a high percent of alfalfa, according to Cecil Berg, farmer in western North Dakota. For the first half of the gilts' gestation period, Berg self-feeds a mixture of ⅓ ground hay and ⅔ ground oats. From then until farrowing time—to avoid getting too much fat on the gilts—he uses 50 percent ground alfalfa and 50 percent ground oats. Berg puts the alfalfa hay through a hammer mill.

While his gilts do not get excessively fat, they are given enough nutrients to keep them in excellent condition. Berg says they produce strong, healthy litters, and they are able to give enough milk to nourish the pigs well. The first winter he fed alfalfa, he weaned 68 pigs from 9 sows. He credits much of their vigor to the proper feeding of their mothers.—*W. J. H., Minnesota.*

Blood test for vibriosis

A new weapon for fighting vibriosis is available to Illinois farmers, according to Dr. H. S. Bryan, University of Illinois veterinarian. Veterinarians can get a laboratory test by sending blood samples to the diagnostic laboratory in the College of Veterinary Medicine. Although the test is still in the experimental stage, earlier research has shown it to be quite accurate.

Vibriosis is one of the major causes of abortion in cattle and is often confused with brucellosis. It usually occurs during the first 6 months of pregnancy. Blood samples must be taken within 14 days after the abortion or breeding failure occurs. One blood sample may be sent in for both brucellosis and vibriosis, says Doctor Bryan, but veterinarians must request that a vibriosis test be made.

600 pounds of beef per acre

A firm believer in legume-grass meadow mixtures is Dwight E. Heckathorn of Marion County, Ohio. Using a meadow mixture of alfalfa, Ladino clover, and bromegrass for pasture, hay, and silage, Heckathorn figures he produces feeder calves for less than $100 per head. This is far cheaper than he could buy them, and he can control the quality of the calves.

Here are the figures which Heckathorn kept on one group of steers. Calved in the spring, they were weaned the following January. From then until grass came, they received grass silage and oats. In May the steers went out on the meadow pasture and received no grain until October 1. With the calves still on pasture, the grain they received during October averaged 4 pounds per head per day. They were on full-feed until they were marketed the middle of January. During the full-feeding period, the steers were fed an average of 7 pounds of grain and ½ pound of soybean oil meal per day. They also received grass silage and good-quality hay.

The cattle gained an average of around 330 pounds during the time they were on pasture alone. As 9 head grazed 5 acres, around 600 pounds of beef were produced per acre. The cattle sold at $33.80 per hundredweight, giving a net return of $203 per acre from the pasture. Part of this is due to the good market price received as a result of the top finish which Heckathorn puts on his cattle by grain feeding.—*D. E. G., Ohio.*

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Morris Johnson

"FERTILIZER," says Mr. Johnson, "is an integral part of an ever-all good farming plan which also includes soil testing, crop rotation, careful drainage and frequent checks on tilth." The Johnsons used over 2,000 tons of commercial fertilizer this year — including 90 tons of ammonium nitrate.

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(1) **Have your soil tested.** Nitrogen is only partly effective in soils short of potash or phosphorus.

(2) **Use all your barnyard** manure and crop residues.

(3) **Mark off test plots** if you can get only a few bags of ammonium nitrate. Learn what nitrogen can do for you!

100 BUSHEL CORN is now practical on Missouri's average soil. Reports Arnold Klemme, University of Missouri soils specialist. He feels many growers reached the 100-bushel goal because

Arnold Klemme
University of Missouri

they plowed down fertilizer. He says that with more fertilizer, both starters and plow-down applications, "we can reduce our present acreage by one-third, and still produce as much corn."

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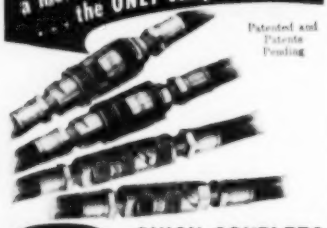

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ROANOKE ILLINOIS

January

Poultry pointers

Feed chickens oats hulls? We usually don't think of chickens as roughage-eating animals. However, experiments at the U.S.D.A.'s research center at Beltsville, Maryland, show a high percent of oats hulls in a mash ration will not seriously affect egg production if the mash is fed in a pellet form. On the other hand, if the same mash is not pelleted, a serious drop in production will result.

In the experiment, 4 mashes were mixed so as to contain 0, 32, 48, and 64 percent ground oats hulls. The birds fed mash in a nonpellet form without oats hulls laid at a rate of 68 percent. Those fed a mash of 32 percent oats hulls laid 62 percent. Then the drop came. Hens fed mash which contained 48 percent oats hulls dropped to 36-percent production; those getting 64 percent oats hulls fell to 25 percent.

However, when the same mash was fed in a pellet form, the rate of lay was 59 percent for hens getting no oats hulls, 68 percent with 32 percent oats hulls, 61 percent with 48 percent oats hulls, and 55 percent with 64 percent oats hulls. In other words, there is no significant difference between the production rates of hens fed 0- to 64-percent levels of oats hulls if the mash is in a pellet form.

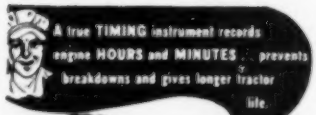
The reason for this, according to Dr. H. R. Bird of the Bureau of Animal Industry, is that pelleted mash reduces the bulk. Pellets permit hens to eat enough feed to maintain egg production with only a slight loss in weight.

Antibiotics help plant protein. Good growth in broilers can be obtained without using fish meal or meat scraps as a source of protein in broiler rations. Experiments at the Pennsylvania station produced broilers weighing 7 percent more at market age by adding the proper kind and amount of antibiotic to rations containing only plant proteins.

Of 5 antibiotics studied, penicillin, aureomycin, and terramycin were superior to streptomycin and chloromycetin in promoting growth. The greatest response occurred early in each experiment. Starting from a high of 36 percent at 14 days, growth response dropped to an average of 7 to 8 percent at 10 to 12 weeks of age. However, in no instance did the all-plant-protein ration produce as high a rate of gain as did the ration containing fish meal and meat scraps.

Get rid of lice and mites. Increased lice and mite population in February and March steps up the death rate in your poultry flock. They irritate the birds and draw their blood supply, thereby reducing their resistance and making them susceptible to other diseases.

The common louse can be discovered around the vent by parting the feathers. Mites are found by running the hand along the underside of the roosts. Traces of blood appearing on the hands prove that mites are present.



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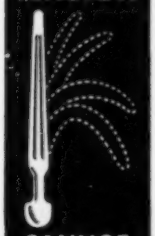

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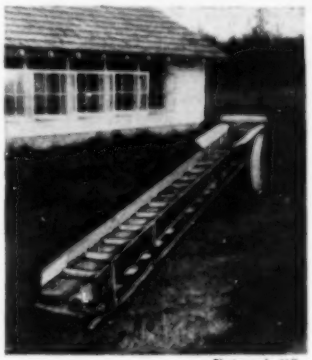
For lice, a solution of nicotine sulfate on the roosts is the most widely recommended. Lindane or refined benzene hexachloride is another control for lice. It is also recommended as a control for mites when the birds are in the house. It can be used as a spray, mixing 1 pound of 25 percent lindane wettable powder with 2 gallons of water. Painting the roosts and perches with creosote before the birds are housed in the fall will control mites for a year.

Mechanical manure loader. Fred Brabec, Pierce County, Washington, built his own mechanical manure-loading chute (pictured below) for cleaning his poultry houses. Brabec figures he can remove manure from the house in half the time and with considerably less hard work. Using the loader, it takes 20 minutes to load 6 yards of manure.



Photograph: Miller

The loader uses a ½-hp motor. One-foot spacings are used between the cleats. The trough is 13" wide and 20' long. The motor is mounted on one end with 2 light wire wheels on a short axle. The wheels permit easy moving of the loader around the farm. The cost was $15 plus the motor.—*J. P. M., Washington.*

Good market for Beltsville Whites. Douglas Blaising and Emil Herber of Allen County, Indiana, are among the first to find a ready market for Beltsville White turkeys in northeast Indiana. In fact, so far the demand has been greater than they can satisfy.

"Calls kept coming in for weeks after we sold our first batch," Blaising said. "We thought the demand would be good, but not that great. Consumers apparently like a small 5- or 6-pound turkey."

Both Blaising and Herber finished their first flock for the early July market. New flocks were started early in August for the holiday markets. They like the faster turnover of the small whites. It takes about 12 weeks to raise the small whites, as compared to 26 weeks for the larger breeds of turkeys.

Herber and Blaising found they made more profit by dressing the birds themselves. Last July, Blaising sold 400 alive and dressed 600. Herber sold 800 alive and dressed 200. They received between 38 and 45 cents a pound for the live birds, 68 cents for those they dressed and sold to retail stores, and 75 cents for those sold on the farm. This fall, they intend to dress all the birds themselves. Blaising says the birds dress out between 75 and 80 percent.—*W. D. B., Indiana.*

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Henry Field Seed Co. 617 Oak St. Shenandoah, Iowa

Colorful spreads

[*From page 43*]

Feminine and perky are the words for this charming, ready-made spread of seersucker with big ruffles and needletuft trimming. It washes like a breeze, goes right back on the bed without ironing. Seersucker spreads come in a variety of designs and colors, and many of them come with matching curtains and dressing-table skirt

This bedroom is designed to double as a study room or small, private living area—ideal for the young man or woman who wants to get away from it all. Simple, Modern feeling of the room is emphasized by the bold stripe of the ready-made throw spread and matching draperies. These cotton spreads wash, iron easily, wear well

This bedspread and the lively, farm-scene wallpaper were selected to please the fancies of a little girl. The bedspread is of plain chintz with very full ruffles of printed chintz. There are draperies to match. The farm-scene wallpaper was used on the one wall only, and it repeats the other colors that were used in room. END

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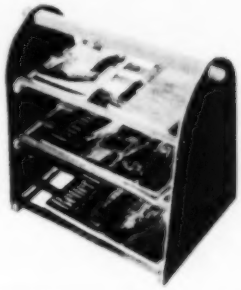

Carry-with-you rack for magazines is handy to have and easy to make. Cut U-shaped end sections from plywood; then glue side shelf supports on the inside of endpieces. Tack four narrow slats between each pair of supports to form the shelves.

Photographs: Waltner

Rack on wall or a door is good if space is at a premium. Measure magazines to determine the height of shelves needed, and make each shelf about 4 inches deep. Tack a 2-inch edging across front of each shelf to keep magazines from sliding off shelves.

Magazine rack built on the side of a desk is most convenient. Cut a pair of side braces first; then glue 2-inch-deep shelf across bottom of braces. Then add front bars at top and bottom of braces to hold magazines upright. Screw to side of desk.

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Dairy

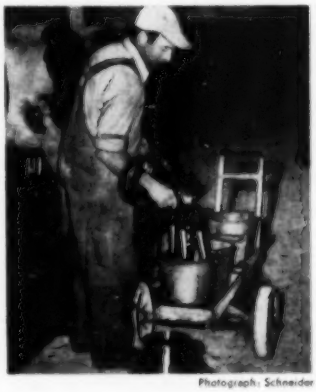
Pick herd replacements young

Dairymen can select replacements for their herds when calves are 3 to 5 months of age if a study in the U.S.D.A. fulfills its promises. After years of research, scientists have a promising basis for prejudging a calf by examining the glandular development in her udder when she is only 4 months old. Calves that have an advanced development of mammary glands at 4 months can produce about 4,000 pounds more milk, on the average, than calves without such development.

To determine whether a calf has glandular development, the dairyman must feel through the skin of the calf's udder. At 2 to 3 months of age, firm oval-shaped bodies, the beginnings of the udder quarters, have begun to form. At 4 to 6 months, front and rear quarters start growing together. Results so far have been encouraging but not conclusive.

Dairy-barn helper

This handy cart (pictured below) holds all the udder-washing materials for Elmer Zimmerman, Jefferson County,



Photograph: Schneider

Wisconsin. Zimmerman keeps 4 buckets on the cart. One is used for cold water, 1 for chlorine water, 1 for clean rags, and the other for used rags. There's also space in the middle of the cart for a strip cup.

Zimmerman built the cart himself at a cost of $2.50. The rear guide wheel was added later and cost $9. The 2 large wheels are steel, covered with old tire casings. The casings were first cut and slipped over the wheels. Then the cut was wired together.

Sand prevents slipping

Lawrence Yetly, Marshall County, Iowa, mixes ½ fine sand and ½ barn lime for his cow-barn floor. This prevents the cows from slipping when the floor is damp. The cows feel sure of their footing and move in and out of the barn better.

Helpful reminder

The water used to wash cows' udders should be as hot as the hand can stand. Too often the water used on the last few cows is cold and dirty. **END**

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Veterinary

People get mange, too

Not long ago we saw some cattle which were badly infected with sarcoptic mange. Their hides were greatly thickened, bloody, and leatherlike in some areas. When the mites were found, the owner suggested that he and his son might be infected, too. They both were suffering from an itching rash which seemed to be spreading over their shoulders and backs. Examination by a doctor proved this to be true. Better not take chances around animals with suspicious skin troubles.

Watch the ration

The other day we saw some pigs which were causing their owner some concern. He said they had "piles," which was fairly descriptive of a swollen rectum turned wrong side out.

The condition was caused by a ration largely composed of oats. This extremely fibrous feed irritated the digestive tract and led to straining which everted the rectums. Additional cases were prevented by changing to a balanced ration.

What's the trouble here?

The cow pictured below was first noticed frequently raising her foot and holding it up as though it were painful. Within a day or two she was limping and there was swelling of the foot and lower part of the leg. Eventually a break at the top of the hoof permitted considerable bloody pus to escape. Can you name the trouble?

Such symptoms indicate such things as wires, glass, and gravel in the foot, broken bones, or infection of various kinds, including foot rot.

In this case it happened to be foot rot, a disease believed caused by a germ called *Actinomyces necrophorus*. These troublemakers live in filth of all kinds, entering the feet through cuts and scratches due to different causes. Although it is most common during the muddy weeks of the pasture season, foot rot often appears in stabled cattle as it did in this case.

Photograph: Bailey

What caused this cow's foot to swell?

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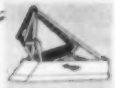

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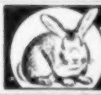

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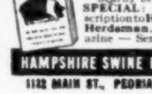

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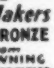

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E. A. Jones, North Carolina, writes: "Berry's Berigold is in my opinion the very best layer developed so far in the U. S. 1,700 Berigolds laid 25 dozen eggs per bag of feed consumed."
A Steady High-Profit Crop Producing Year 'Round Cash
G. S. Dahl, large scale broiler grower, Minnesota, has raised over 600,000 BERRY's chicks, writes: "We get a pound of meat from 2¼ lbs. feed. Rich yellow skin and legs, plump broilers faster mean extra profit."
We want you and your neighbors to see the amazing egg production and broiler profits with your own eyes. So we offer demonstration shipments to one family in each locality. Only cost is a small handling and shipping charge. Only straight run as hatched chicks. Be FIRST to qualify. Write now for FREE GIFT CERTIFICATE to nearest address: either George Berry, 307 Ajax Road, Quincy, Illinois, or Ernest Berry, 307 Sunflower Road, Newton, Kansas. Only one family in each locality is eligible, so write today.

All around the farm

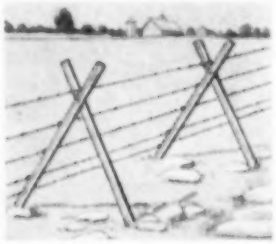
A page written by our readers

Sometimes at night it's difficult for motorists to see the mailbox set close to the roadside. To protect both box and passing vehicles, we have used small reflectors on each side of the mailbox. These are available in auto-supply stores.—*Mrs. C. B., Nebraska.*

I have found an old bicycle chain a perfect substitute for ropes or cables on farm gates where weights are used to close the gates. The chain passes through a pulley as easily as a rope and won't rot away due to wet weather. A good greasing when the chain is installed will protect the chain against rust.—*J. B., New York.*

Often barn-door hinges become loose and fail to hold a heavy door with only screws through the holes in the hinge. In cases of this kind, I weld the strap of the hinge to a length of strap iron which in turn is bolted solidly to the doorframe.—*J. W. E., Missouri.*

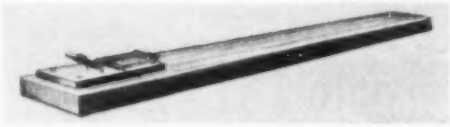
This method of fencing is used on ground too stony to permit fence post-holes to be dug. The wire is spaced on one post as wanted, then stapled to two



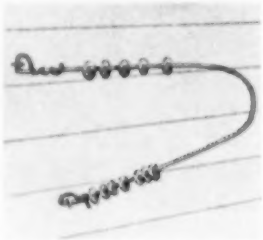
posts at the top. It is simply an adaptation of an old-time type of rail fence, with wire instead of rails or poles.—*M. J. H., Illinois.*

In backing a rubber-tired tractor into a belt on icy ground it sometimes is impossible to get the belt tight enough for successful operation. In such cases we lay a piece of chain on the ground in the track of the tractor wheel. This chain digs in the ice and the tractor wheel will not slip on the chain. It is thus held in the correct working position.—*M. S., Michigan.*

When trapping mice I nail the trap to a small board about 1"x2"x 24", as shown. Thus the trap can be set easily in a corner or behind feed sacks. The trap is less likely to get lost. For rat-traps, I use a larger board.—*B. W., Wisconsin.*



A handy tabulator for counting loads of grain, hay, and so forth, can be made by bending a piece of wire into a V-shape, making small eyes in the end of the wire for fastening it. String washers



on the wire and fasten it to the barn wall or a post, as shown. Counting can be done by moving the washers from one side of the loop to the other.—*L. R. W., Minnesota.*

We find that a length of speedometer cable is excellent for cleaning clogged oil or fuel lines in machinery. It is much better than wire, as it follows the bends in the line without catching, and it is safer than compressed air, which might burst the line. Compressed air may be used, after using the cable, to blow out loosened particles.—*M. M., New York.*

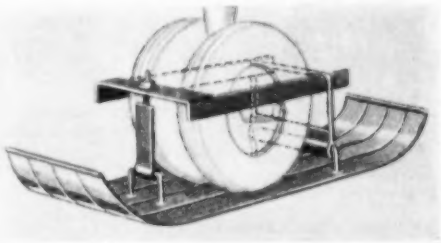
Our homemade sled for the tractor's front wheels has enabled us to haul bigger loads of hay from our field barn, as the wheels now ride over the snow instead of bucking it. The sled is 1' wide and 4' long. It is made of four 3"-wide sleigh runners, welded side by side. The upper irons, which are slid on across the axles, also are made of sleigh runners. It is quick to hook up, as only one heavy bolt is used. The sled rocks with the wheels.—*E. P., Michigan.*

For a quick fix on an icy doorstep or walk, we spread an old gunny sack on the step or walk, and sprinkle with warm water. It freezes fast at once, and there is nothing to track in the house.—*E. W., Missouri.*

Whenever I haul ear corn on my 1½-ton stake truck bed, I place snow fencing around the inside of the stake racks. This way I lose no corn, and I find that I can also get a larger load on the truck.—*L. S., Ohio.*

To catch rats, I place a double-spring fox trap in an old pan about 8" in diameter, after setting the trap. Then I cover the trap in the pan completely with corn, and set the pan where there is no chance of anything but a rat getting at it. Rats are usually killed outright by a trap of this size.—*W. B., Indiana.*

Sheet-metal roofing will not work loose if the laps are placed so the prevailing winds will not get under the sheets. Also, the roof-end edges should be nailed over on the gable-trim boards and the roofing nails clinched on the underside at the eaves and at the end laps of the sheets.—*J. A., Iowa.*



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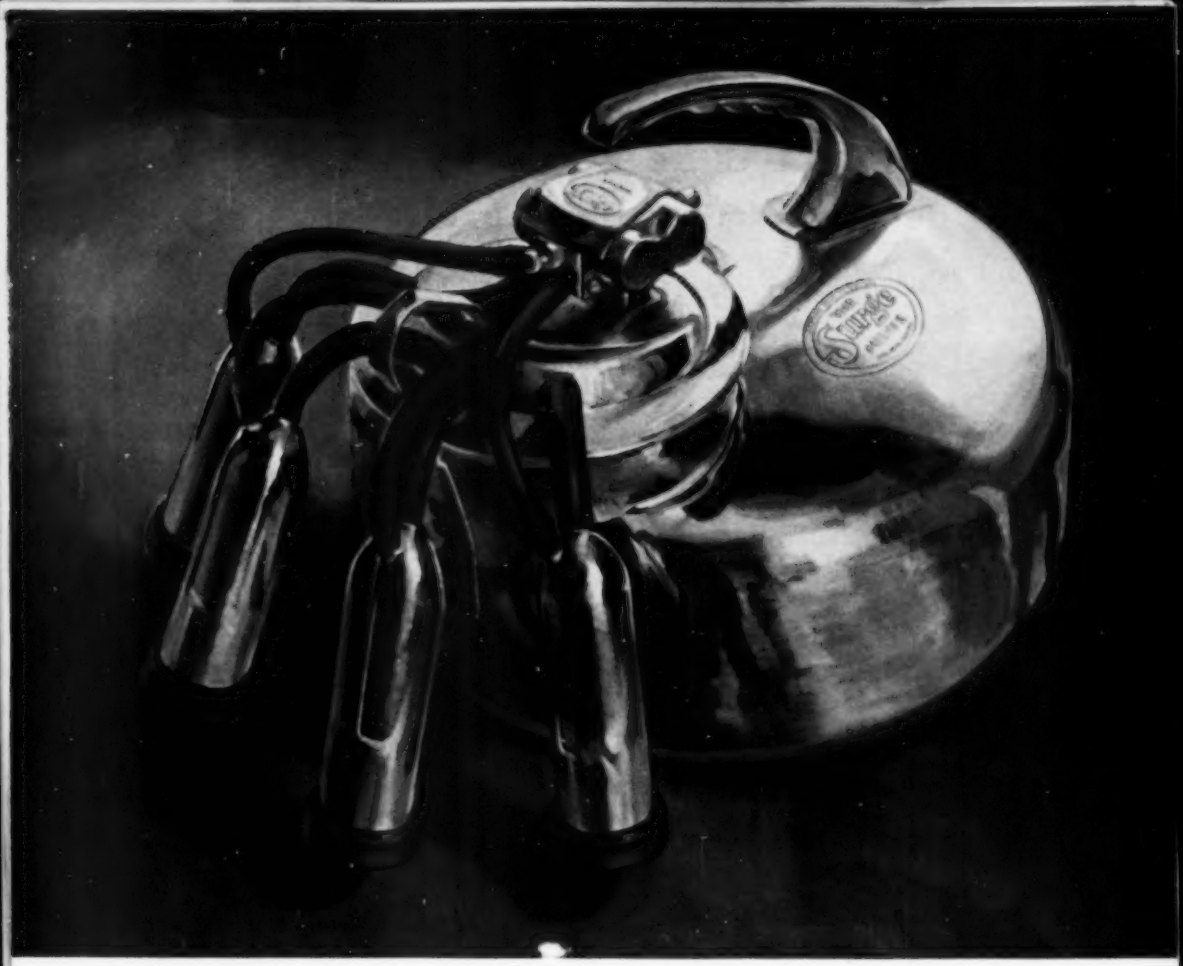

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